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VIDEO PRODUCTS TECHNICAL BULLETIN

VIDEO PRODUCTS COMPANY
VIDEO TECHNICAL INFORMATION DEPT.
700 W. Artesia Blvd. Compton, CA. 90220

Date: September 1979 **No.** 1

Model: RM-300

Subject:

APPLICATION WITH U-MATIC VTRs

The Sony RM-300, remote random access control unit was designed for use with the SLP-300 Betamax Player and the SLO-320 Betamax Recorder/Player for locating particular tape segments quickly and automatically.

The RM-300 may also be similarly used with the VO-2860, VP-2260 and LVO-7000 if so desired by performing the changes as explained below.

1. Add a 10 kohm (1/4 or 1/8W) pull-up resistor for "CTL Signal" between CN 2-6 and +VDD (SY-27 board). See Fig.1 and 3.

2. Change the time constant of "Manual Command" (SY-27 board)

   Change R34: 220 kohm to 1 Mohm.
   Change C14: 0.01 uF to 0.2 uF.

3. Change the time constant of "Pause Signal" (SY-27 board)

   Change R8: 100 kohm to 1 Mohm.

4. Add a jumper to the remote control connector between pin No. 10 to pin No. 7. See Fig. 2. Note that pin No. 7 is not normally used and is not in the connector. This is not available as a part item but can be obtained from a Sony Factory Service Center.

Notes:

1. When the cassette is placed into the VO-2860 or the VP-2260, the tape will not rewind automatically. In this case the power switch should first be in the "OFF" position. Place the cassette into the VO-2860 and then turn the switch "ON". The tape will rewind to the tape top.

2. These changes will not affect the operation of the SLP-300 or SLO-320 when using RM-300.

Parts:

1 -	10 kohm 1/4W ---------	1-246-497-00
2 -	1 Mohm 1/4W ----------	1-246-545-00
	0.22 uF -------------	1-131-211-21
3 -	1 Mohm 1/4W ----------	1-246-545-00
4 -	Contact Pin ----------	1-508-958-11

Ref: VTRW79-80

ACCSSY

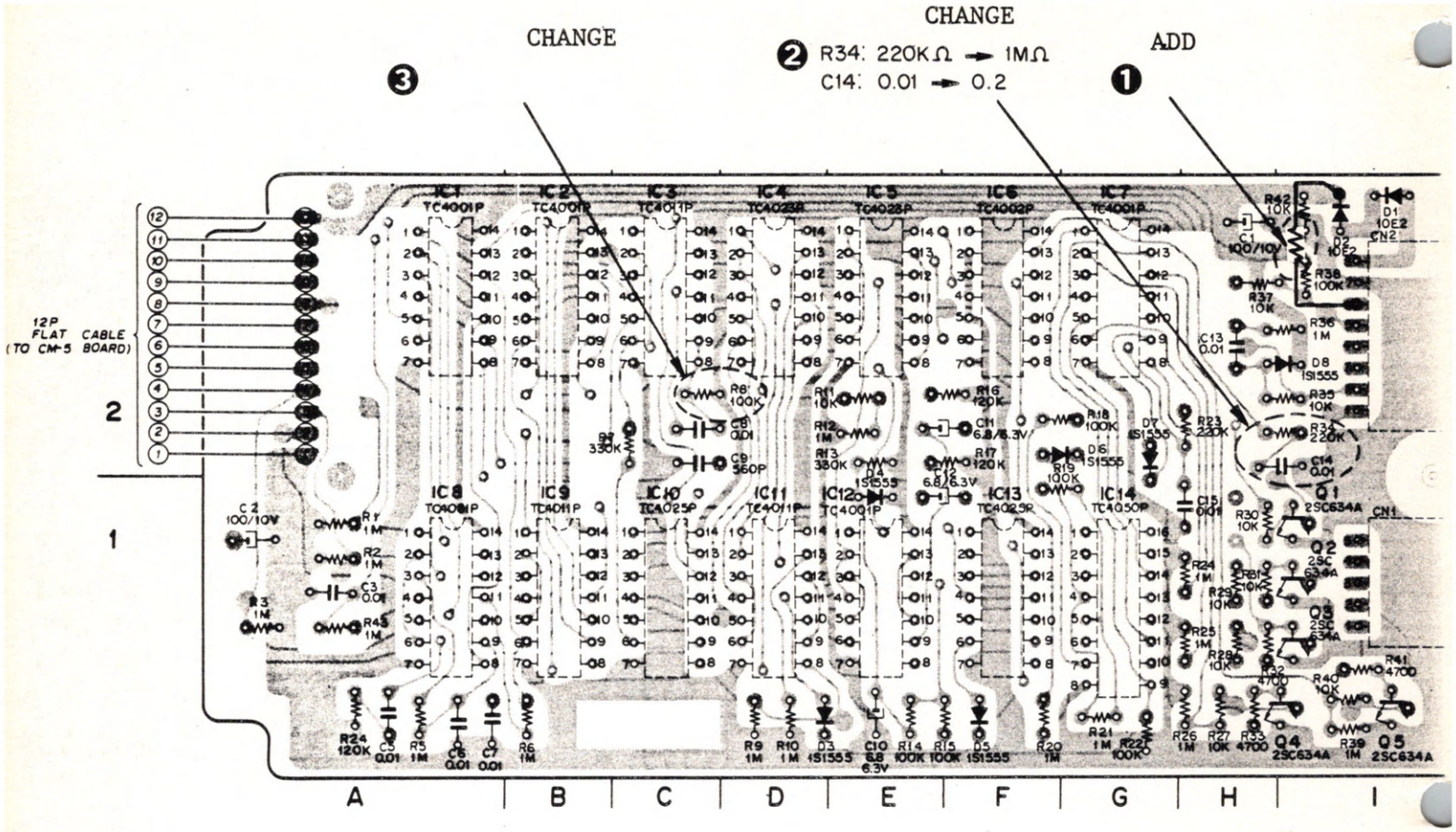

CHANGE
CHANGE
2 R34: 220KΩ → 1MΩ
C14: 0.01 → 0.2
ADD
3
1
12P FLAT CABLE (TO CM-5 BOARD)
2
1
A
B
C
D
E
F
G
H
I

Fig. 1

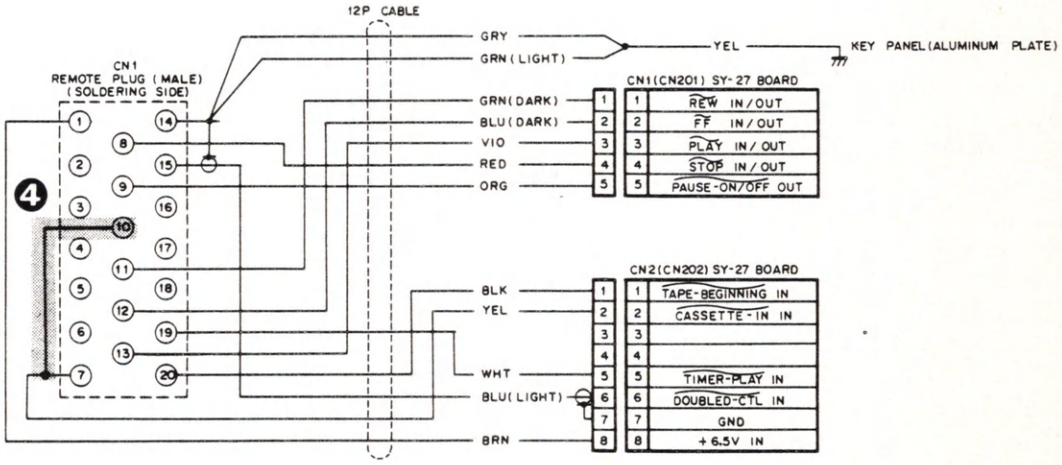

12P CABLE
GRY
GRN (LIGHT)
YEL
KEY PANEL (ALUMINUM PLATE)
CN1
REMOTE PLUG (MALE)
(SOLDERING SIDE)
4
GRN (DARK)
BLU (DARK)
VIO
RED
ORG
CN1 (CN201) SY-27 BOARD
1 REW IN/OUT
2 FF IN/OUT
3 PLAY IN/OUT
4 STOP IN/OUT
5 PAUSE-ON/OFF OUT
BLK
YEL
WHT
BLU (LIGHT)
BRN
CN2 (CN202) SY-27 BOARD
1 TAPE-BEGINNING IN
2 CASSETTE-IN IN
3
4
5 TIMER-PLAY IN
6 DOUBLED-CTL IN
7 GND
8 +6.5V IN

Fig. 2

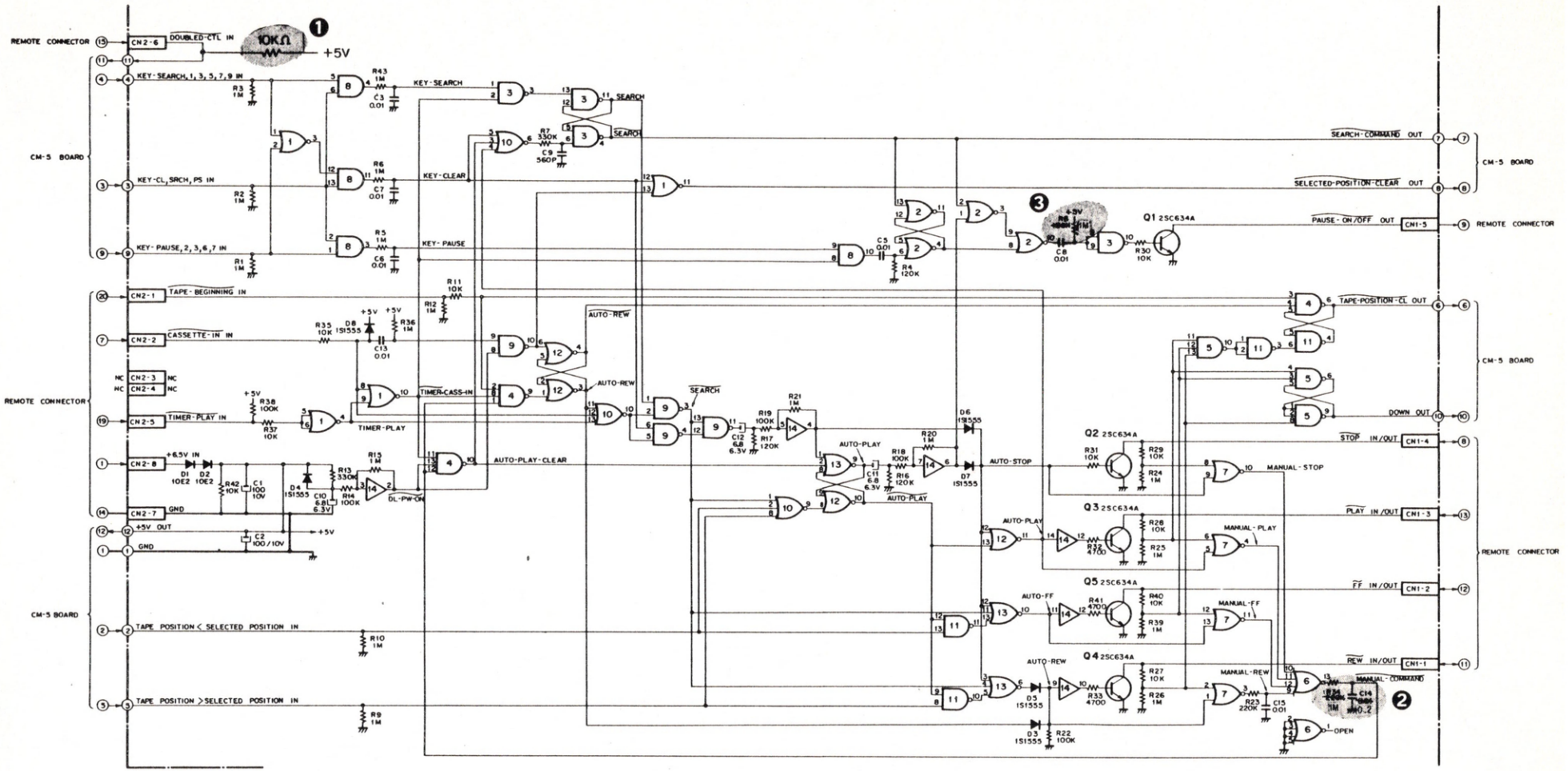

REMOTE CONNECTOR
CM-5 BOARD
DOUBLED-CTL IN
10KΩ
+5V
KEY-SEARCH, 1, 3, 5, 7, 9 IN
KEY-CL, SRCH, PS IN
KEY-PAUSE, 2, 3, 6, 7 IN
KEY-SEARCH
KEY-CLEAR
KEY-PAUSE
SEARCH
SEARCH-COMMAND OUT
SELECTED-POSITION-CLEAR OUT
PAUSE-ON/OFF OUT
Q1 2SC634A
TAPE-BEGINNING IN
CASSETTE-IN IN
TIMER-PLAY IN
+6.5V IN
+5V OUT
GND
NC
TAPE POSITION < SELECTED POSITION IN
TAPE POSITION > SELECTED POSITION IN
TIMER-CASS-IN
TIMER-PLAY
DL-PW-ON
AUTO-REW
AUTO-PLAY
AUTO-PLAY-CLEAR
AUTO-STOP
AUTO-FF
TAPE-POSITION-CL OUT
DOWN OUT
STOP IN/OUT
PLAY IN/OUT
FF IN/OUT
REW IN/OUT
MANUAL-STOP
MANUAL-PLAY
MANUAL-FF
MANUAL-REW
MANUAL-COMMAND
Q2 2SC634A
Q3 2SC634A
Q4 2SC634A
Q5 2SC634A
OPEN

Fig. 3

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VIDEO PRODUCTS COMPANY
VIDEO TECHNICAL INFORMATION DEPT.
700 W. Artesia Blvd. Compton, CA. 90220

Date: September 1979 **No.** 2

Model: VO-3800

Subject:

HEAD CLOGGING
(Addition to VTR Service Bulletin No. 262)

In VTR Service Bulletin No. 262 a modification to reduce Head Clogging by loosening tape tension around the drum was described. In some cases, performing this modification has made the tape slack adjustment difficult to make.

If these conditions are encountered in making adjustments on the VO-3800, the SY-10 board may be modified as follows:

Add:	D4	RD9.1E (P.N. 8-719-191-07)
Add:	D5	1S1555
Add:	R7	1kΩ 1/4W carbon
Change:	C1	from 4.7μF/25V to 6.8μF/25V

Select the value of *R1 and **C622 in the following way:

1. Adjust the amount of tape slack in the STOP mode using the camera trigger.

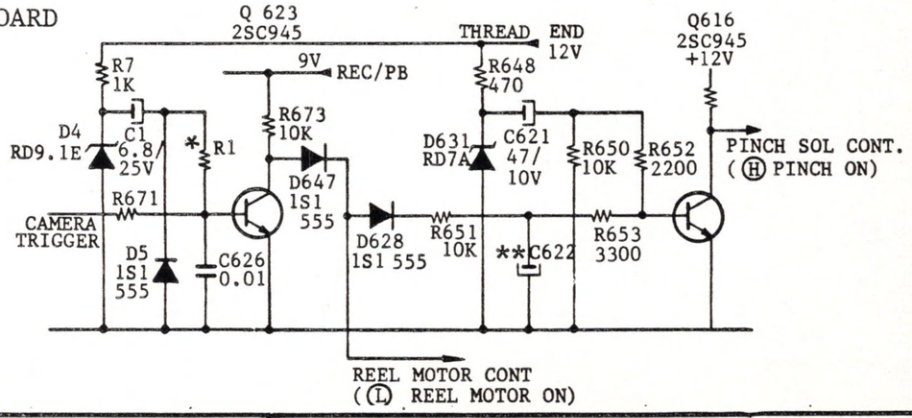
   R1: Set R1 to 91kΩ
   C622: Choose a value between 10μF/25V and 33μF/10V, tantalum.

2. Adjust the amount of tape slack at the threading end.

   C622: Use the value selected in step 1.
   R1: Select a value of R1 between 91kΩ and 51kΩ, 1/4W carbon which achieves the correct specification.

Note: The correct tape slack should be just enough to loosen the tape tension, but not drop the tape from the tape guide.

SY-10 BOARD



Ref: VTRW 79-80

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VTR

VIDEO PRODUCTS COMPANY
VIDEO TECHNICAL INFORMATION DEPT.
700 W. Artesia Blvd. Compton, CA. 90220

Date: September 1979 **No.** 3

Model: VO-2800, -2860, VP-2260

Subject: 1. REMOVAL OF STILL SWITCH
2. CASSETTE-IN SWITCH CHANGES

This modification is effective in units with following serial numbers:

Model	U.S. Version	CAN. Version
VO-2800	15,521 and higher	20,631 and higher
VO-2860	14,391 "	20,601 "
VP-2260	10,581 "	10,151 "

1. Removal of STILL Switch

The KC-type cassette which is not suitable for STILL operation has been replaced with the KCA and KCS cassettes in most all cases.

Therefore, due to infrequent use of the KC-type cassette, the STILL switch is no longer necessary, and has been removed in current factory manufactured units. See Fig. 1.

2. Cassette-in Switch Changes

Applicable to VO-2860 and VP-2260

The STILL Switch just described is now used as a Cassette-in Switch on the VO-2860 and VP-2260. In units with an elevator-style cassette compartment (such as the VO-2800), this change has not been applied.

Accompanying this change is the use of a newly shaped Push Rod Guide, which allows the former switch to be used in this new capacity. See Fig. 2.

The new part can be used in all units, but the former Push Rod Guide is not compatible with the new one.

The Cassette-in Switch schematics on the boards RL-1 and RL-4 boards have also been changed. See Fig. 3.

Ref: VTRW 79-60

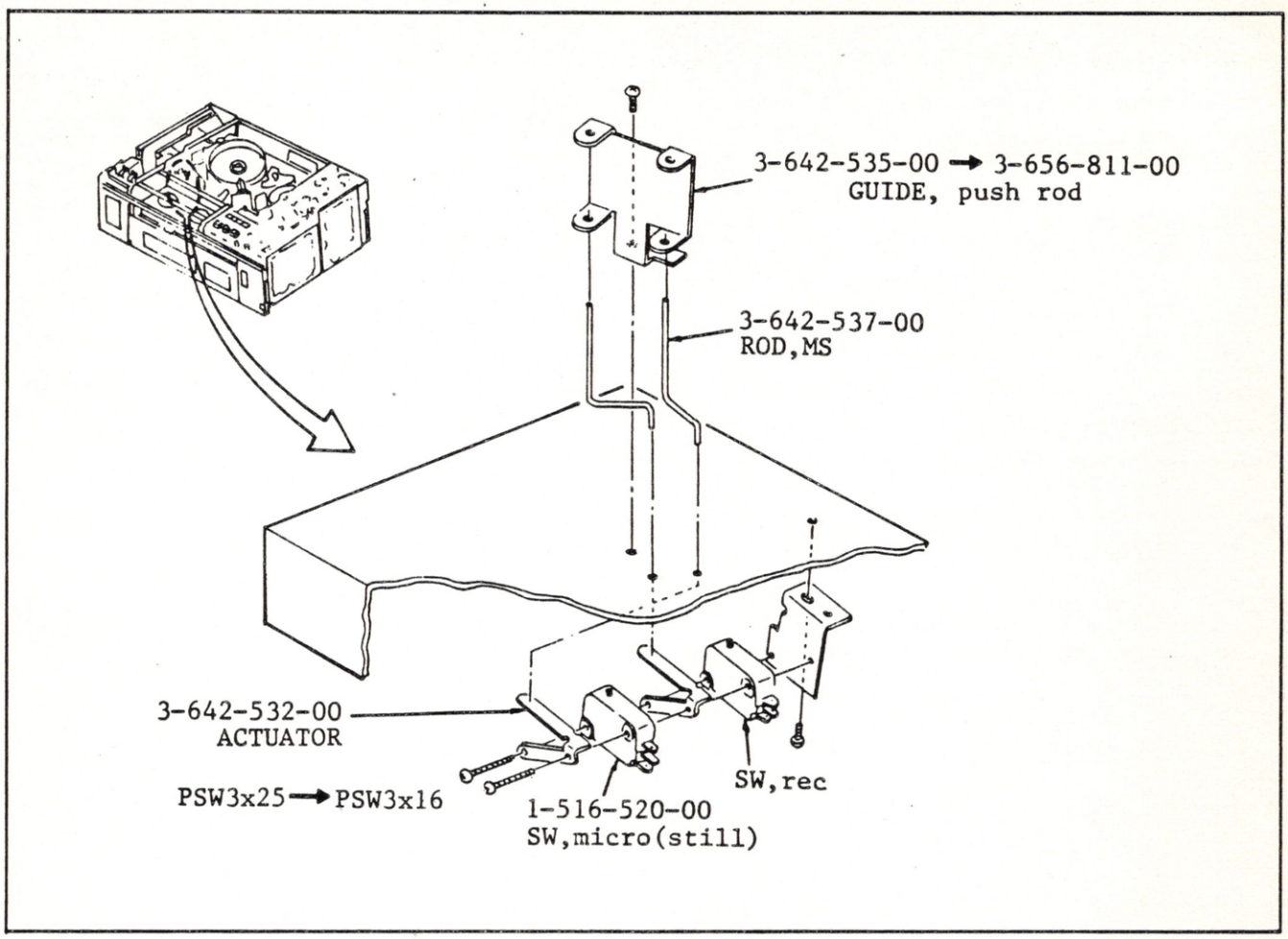

3-642-535-00 → 3-656-811-00
GUIDE, push rod
3-642-537-00
ROD,MS
3-642-532-00
ACTUATOR
PSW3x25 → PSW3x16
1-516-520-00
SW,micro(still)
SW,rec

Fig. 1

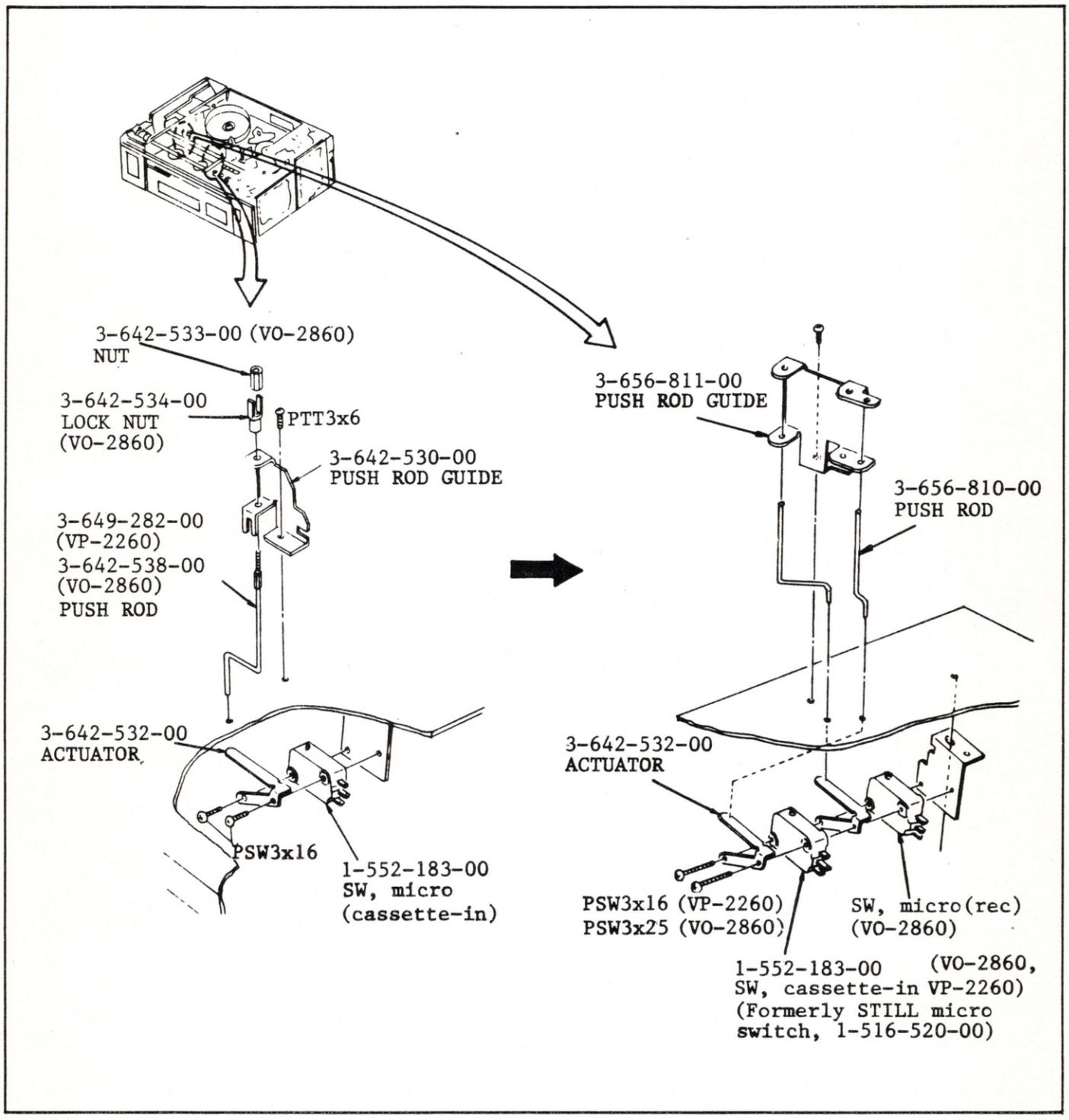
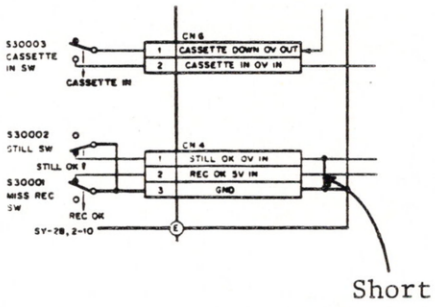

3-642-533-00 (VO-2860)
NUT
3-642-534-00
LOCK NUT
(VO-2860)
PTT3x6
3-642-530-00
PUSH ROD GUIDE
3-649-282-00
(VP-2260)
3-642-538-00
(VO-2860)
PUSH ROD
3-642-532-00
ACTUATOR
PSW3x16
1-552-183-00
SW, micro
(cassette-in)
3-656-811-00
PUSH ROD GUIDE
3-656-810-00
PUSH ROD
3-642-532-00
ACTUATOR
PSW3x16 (VP-2260)
PSW3x25 (VO-2860)
SW, micro(rec)
(VO-2860)
1-552-183-00
SW, cassette-in
(VO-2860,
VP-2260)
(Formerly STILL micro
switch, 1-516-520-00)

Fig. 2.

VO-2860, VP-2260

RL-4 board: 1-586-196-00 ⟶ 1-586-196-13



VO-2800

RL-1 board: 1-584-423-00 ⟶ 1-584-354-14

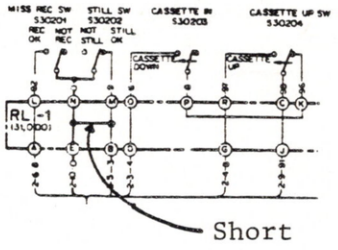


Fig. 3.

VT79-60

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Date: September 1979 **No.** 4

Model: VO-2860

Subject: CTL AMPLIFIER

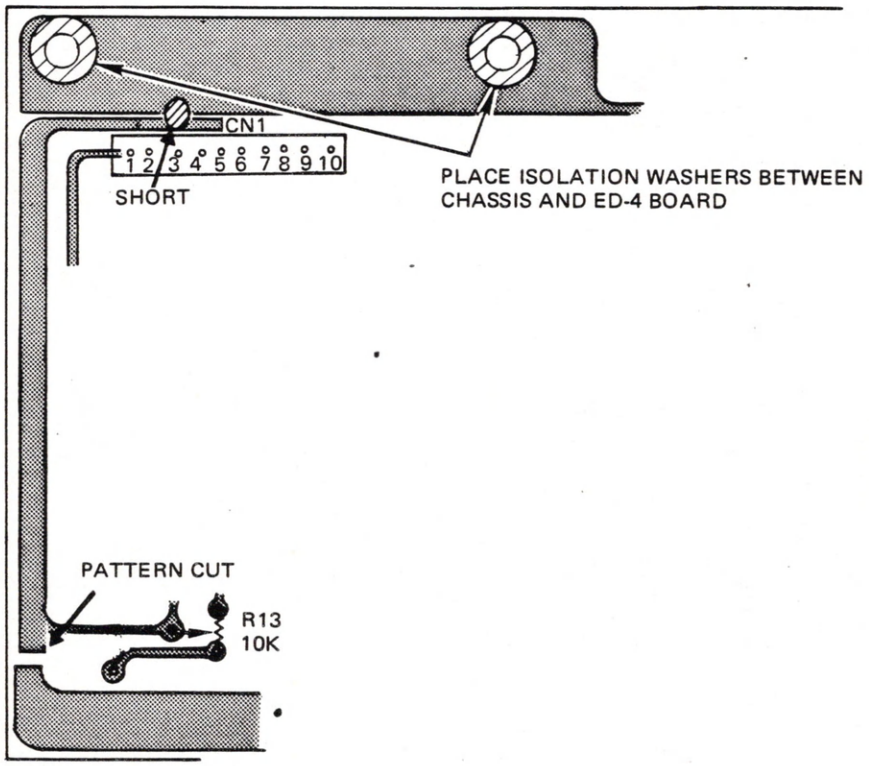
Factory applied serial numbers:

Ground loop changed: 13,351 to 14,170
P.C. board changed: 14,171 and higher (U.S.)
20,501 and higher (CAN)

Oscillation of the CTL amplifier on the ED-4 board may cause CTL signal muting and misoperation of the CTL counter.

To eliminate the possibility of oscillation, change the ground loop on the ED-4 board as shown.

ED-4 BOARD



Ref: VTRW 79-78

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700 W. Artesia Blvd. Compton, CA. 90220

Date: January 1980 **No.** 5R

Model: VP-2260

Subject: 1. EDITING ACCURACY
2. STABILIZED OPERATION OF INTERNAL VERTICAL DRIVE GENERATOR

This bulletin replaces Tech Bulletin No. 5.

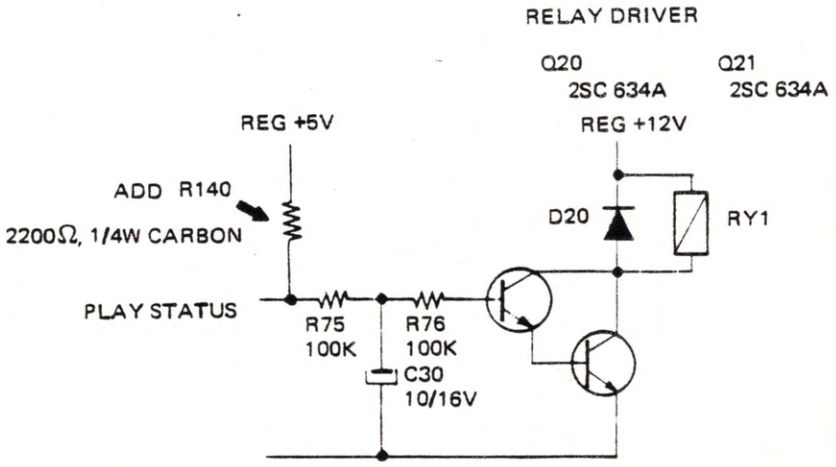
1. Editing Accuracy

The VP-2260 uses two CTL heads; one is used in the playback mode and the other in the fast forward and rewind modes. When changing from STOP (FR STOP) to PLAY, and vice versa, the switching between the two CTL heads may result in CTL miscounting, which will affect the editing accuracy. To improve this accuracy a resistor R140, 2200Ω can be added to the relay driver circuit on the SA-6 board, as shown below.

This modification has already been incorporated in machines starting with the following serial numbers:

10,581 and higher (U.S. Version)
10,151 and higher (CAN Version)

SA-6 BOARD



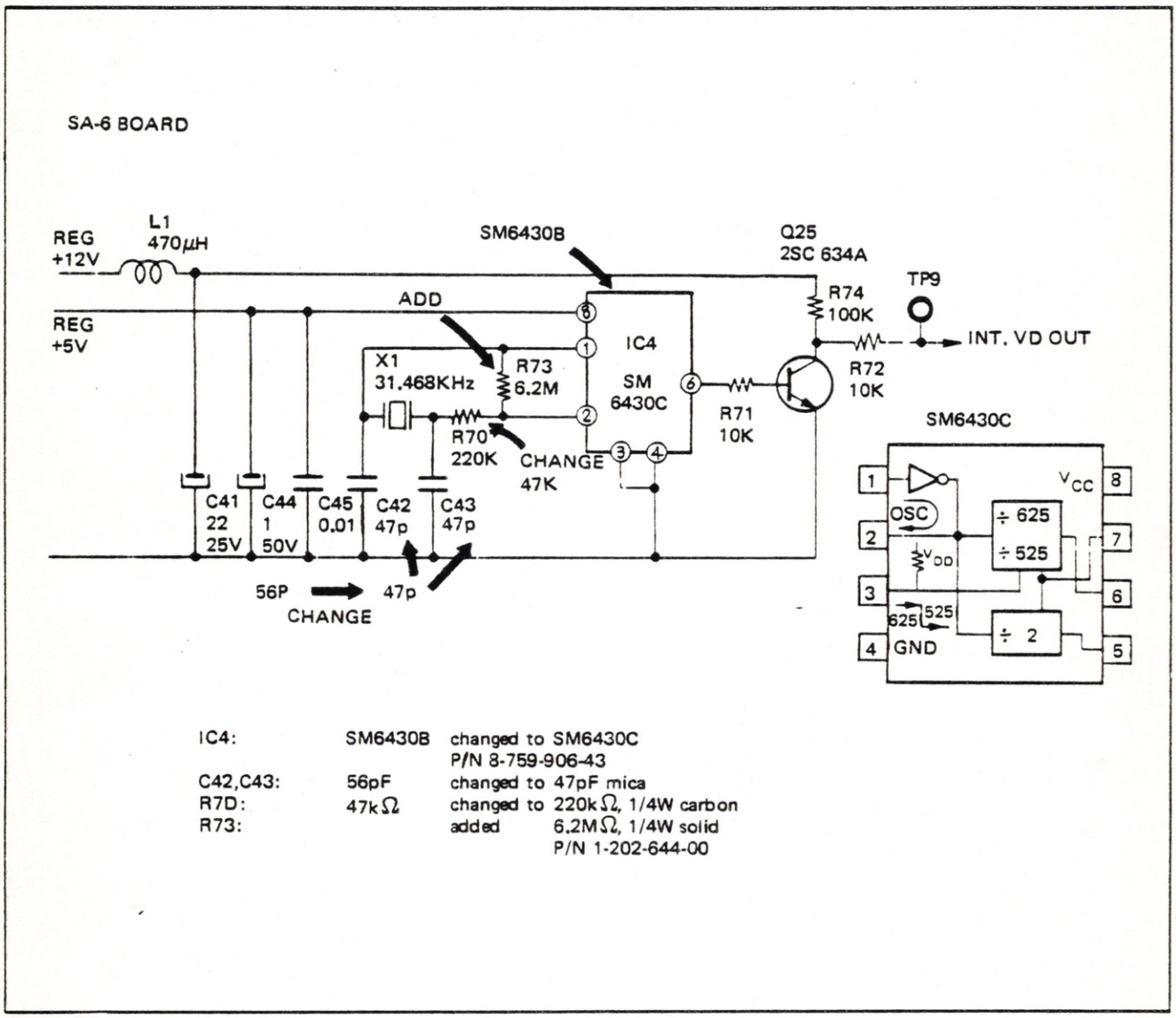
Ref: VTRW 79-89

2. Stabilized Operation of Internal Vertical Drive Generator

Effective serial numbers:

10,801 and higher U.S. Version
10,181 and higher CAN Version

To stabilize the operation of the Internal Vertical Drive Generator on the SA-6 board, the following component changes have been made.



IC4:	SM6430B	changed to SM6430C P/N 8-759-906-43
C42,C43:	56pF	changed to 47pF mica
R7D:	47kΩ	changed to 220kΩ, 1/4W carbon
R73:		added 6.2MΩ, 1/4W solid P/N 1-202-644-00

(VT79-81)

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Date: October 1979 **No.** 6

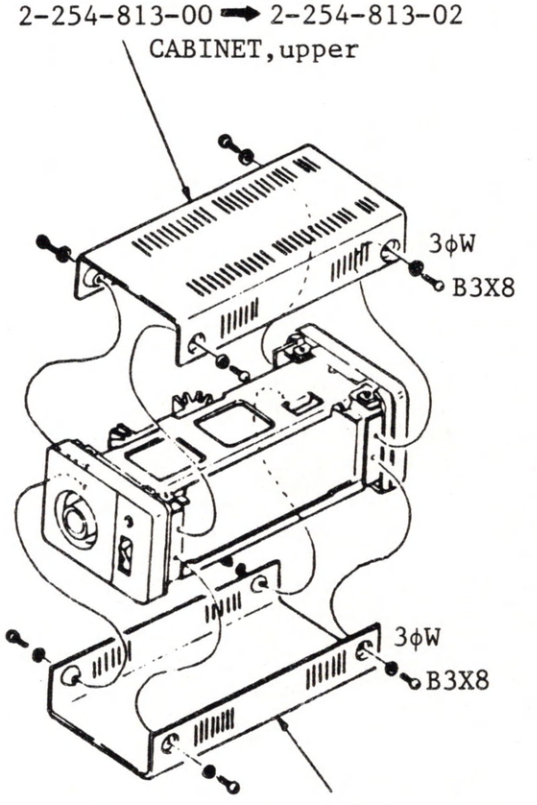
Model: CMA-100

Subject: 1. CABINET COLOR CHANGE
2. PART NO. FOR 14 PIN CONNECTOR

1. Change of Cabinet Color

The color of the upper and lower portions of the cabinet has been changed, effective from serial number 11,001 and higher.

Only the new cabinet will be available for replacement. To have the colors match on units with serial numbers below 11,001, replace both the upper and lower cabinets.



Ref: VTRW 79-13, 78-157

ACCSSY

2. Part Number for 14 pin Connector

Please add the following part numbers for the 14 pin connector and contacts to your CMA-100 Service Manual, Electrical Parts List.

CN-1 1-561-260-00 receptacle 14 pin, female CAMERA

1-931-896-00 harness with receptacle, 14p
1-561-256-00 contact AWG24 through 20
1-561-257-00 contact AWG28 through 24

(VTRW79-157)

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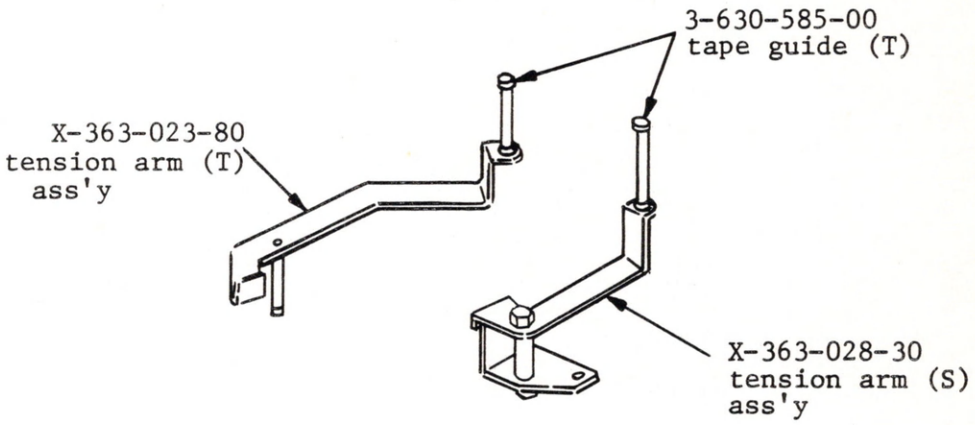
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700 W. Artesia Blvd. Compton, CA. 90220

Date: October 1979 **No.** 7

Model: VO-1600,-1800; VP-1000,-1200

Subject: PART NUMBERS FOR TENSION ARMS

The part numbers for the T and S Tension Arm Assemblies in the exploded view of the service manual are unclear. The part numbers are as follows. Please correct your manual accordingly.



Ref: VTRW 75-67

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Date: October 1979 **No.** 8

Model: SLP-300; SLO-320, -340

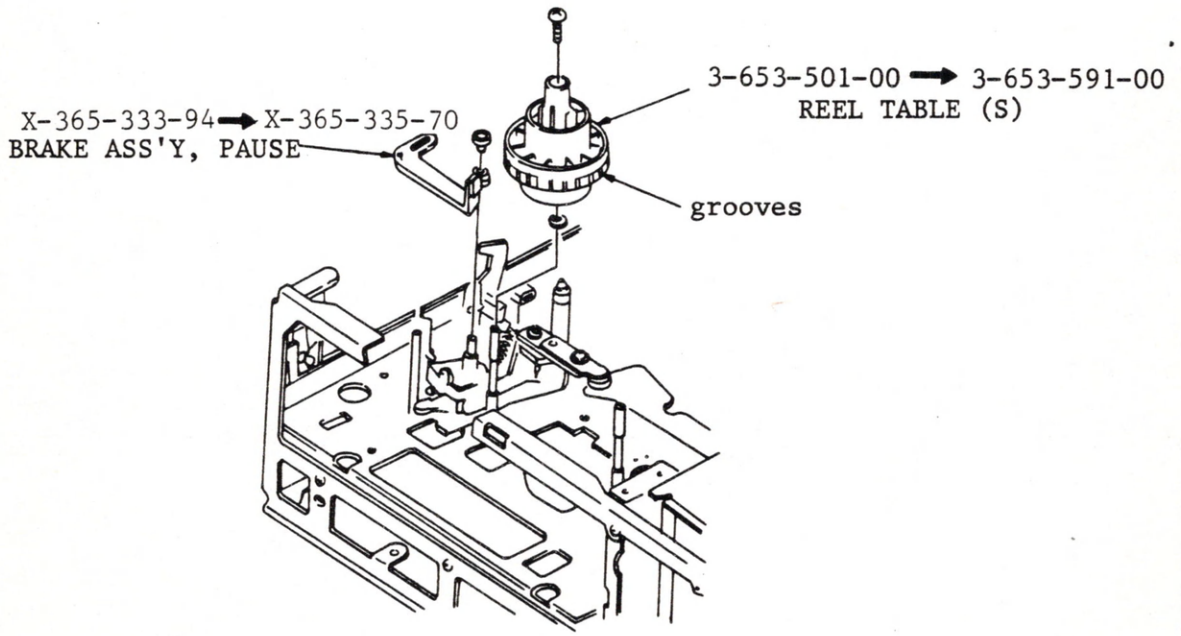
Subject:

IMPROVED REWIND

Factory applied serial numbers:

Model	U.S. Version	CAN Version
SLP-300	23,701 and higher	21,201 and higher
SLO-320	16,353 "	20,701 "
SLO-340	17,701 "	30,701 "

To obtain more uniform rewind, grooves have been added to the S reel table. When you are installing the new S reel table into earlier production units, also install the new P brake assembly, because the contact point between the P brake assembly and S reel table has been changed.



Ref: VTRW79-113

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Date: October 1979 **No.** 9

Model: Various, See Below

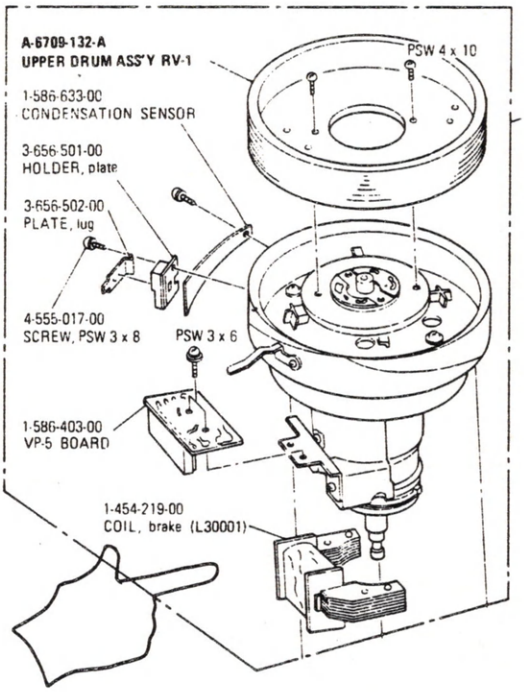
Subject: BRAKE COIL STANDARDIZATION

MODELS: LVO-7000;TVO-9000;VO-2600,-2800,-2850,-2860;VP-2000, -2010,2260.

The Brake Coil for the models above has been changed to the type used in the VO-2610 and VO-2611.

The former and new brakes are completely interchangeable; therefore, it is not necessary to be concerned about the serial number at which the change occured.

Note: The standardized brake coil can be used in the VO-2850A but not in VO-2850 VTRs.



Former Part No. 1-454-138-00

Ref: VTRW79-53

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VTR

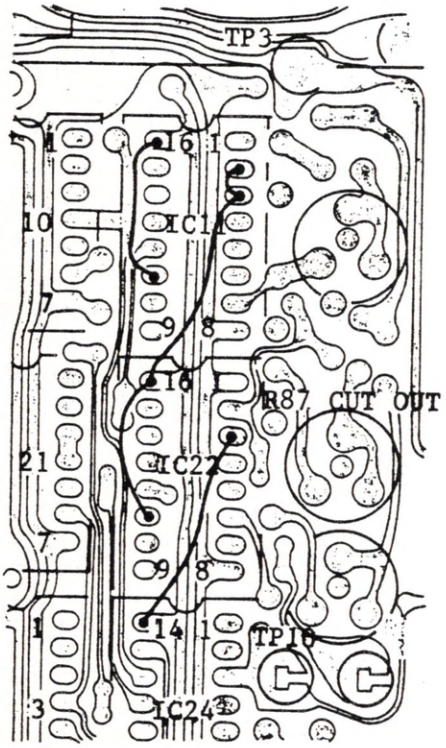
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Date: October 1979 **No.** 10

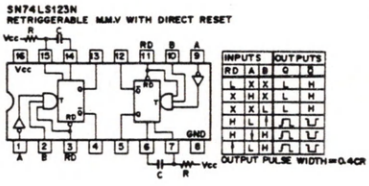
Model: VO-2860

Subject: LOSS OF PICTURE AT CUT-OUT

If loss of picture is experienced when performing an INSERT cut-out, connect jumpers between the RD terminal and the +5V terminals of IC11 and IC22, on the SY-8 board.



IC11 pin 2,3 ➡ IC22 pin 16
IC11 pin 11 ➡ IC11 pin 16
IC22 pin 3 ➡ IC24 pin 14
IC22 pin 11 ➡ IC22 pin 16



Factory modified serial numbers: 14,541 and higher (U.S.)
20,601 " (CAN).

Ref: VTRW 79-121

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Date: October 1979 **No.** 11

Model: CVM-1250/1750/2150

Subject: NEW FINE TUNING KNOB

In response to a UL request, the fine tuning knob on the following TV receivers will no longer be metal plated. The replacement knob (New Part No. 4-312-515-11, KNOB, Fine Tuning) will be made of black plastic. The serial numbers of each model being changed, are listed below.

Model	Serial Numbers
CVM-1250	23,101 and higher
CVM-1750	12,601 and higher 209,801 and higher
CVM-2150	12,001 and higher 201,501 and higher

MONITOR

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Date: November 1979 **No.** 12R

Model: TT-300 (SLO-340)

Subject:

AUDIO CROSSTALK IN SLO-340

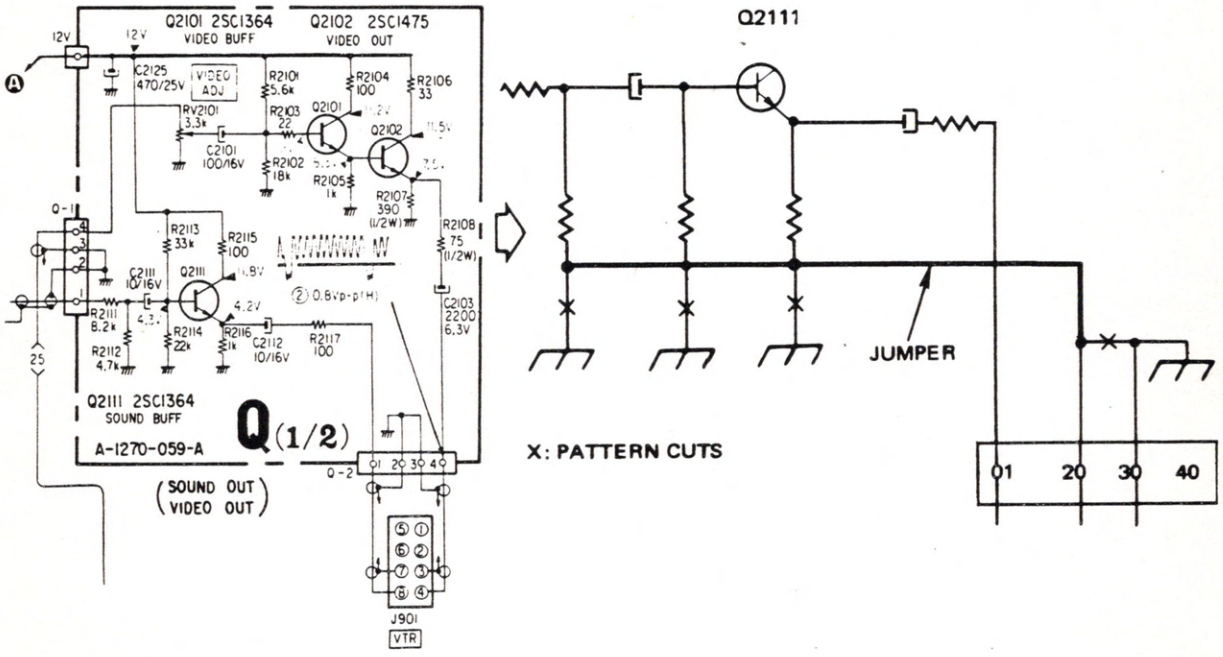
* This bulletin supercedes Tech Bulletin No. 12. *

This modification can be applied to units with S.N.'s below 11,300.

When the TT-300 is used in combination with the SLO-340 and the AC-340, spurious audio noise at about 300Hz may be recorded. This noise is due to motor current spikes, which are transmitted through a ground loop between the VTR and the TT-300.

This ground loop occurs only when the VTR and the TT-300 are connected by a coaxial cable. It can be eliminated by separating the grounds for the audio and video signals at the Q (Buffer) board.

Four cuts to the foil pattern and one jumper are necessary to accomplish this separation, as shown in the following diagrams.



ACCSSY

Ref: VS79-16

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Date: November 1979 **No.** 13R

Model: SLO-340

TR

Subject:

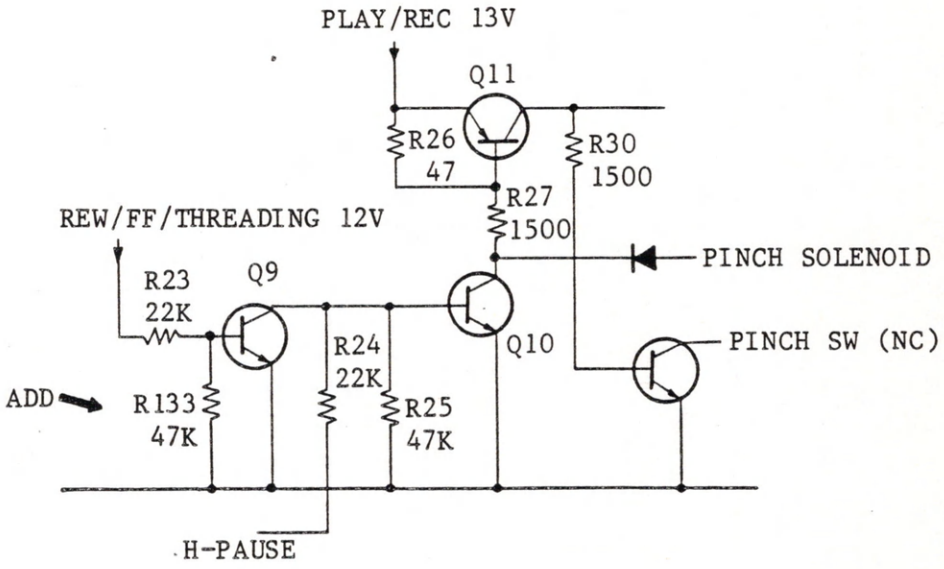
PINCH SOLENOID NOISE PREVENTION

* This bulletin supercedes Tech Bulletin No. 13. *

This modification can be performed on units with serial numbers below 17,701 (U.S. Model)and below 30,701 (Can. Model). Units with higher serial numbers have been factory modified.

In normal PLAY operation, Q9 on the SY-17 Board is driven into cut-off. However, noise spikes appearing at the base may cause Q9 to conduct, because the base/emitter voltage of Q9 is not well balanced. This conduction will cause an intermittent current to flow through the pinch solenoid driver. This incorrect drive current can be picked up by the video head and appear as dropout noise in the video picture. Also, chattering may occur in the pinch solenoid.

Adding R133 to the base circuit of Q9 will balance its base/ emitter voltage and increase its noise stability, thus preventing pinch solenoid noise.



Ref: VTRW 79-111

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Date: November 1979 **No.** 14

Model: VO-2800

Subject:

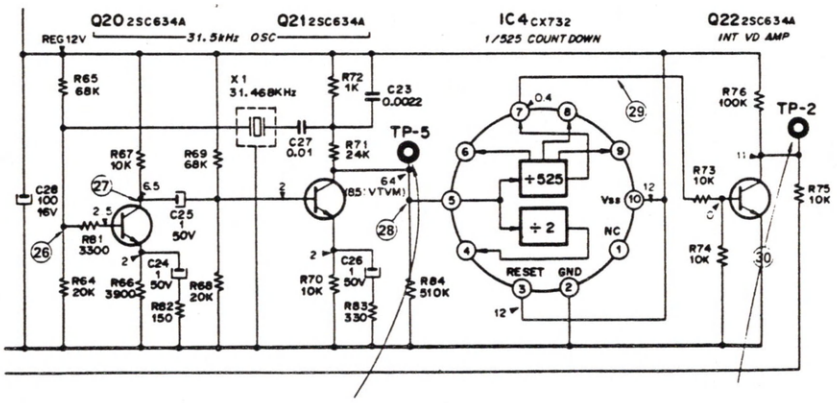
CHANGE OF INTERNAL VD GENERATOR

This circuit change has been incorporated into the following units:

VO-2800 Serial Numbers 15,521 and higher (U.S. MODEL)
Serial Numbers 20,631 and higher (CAN. MODEL)

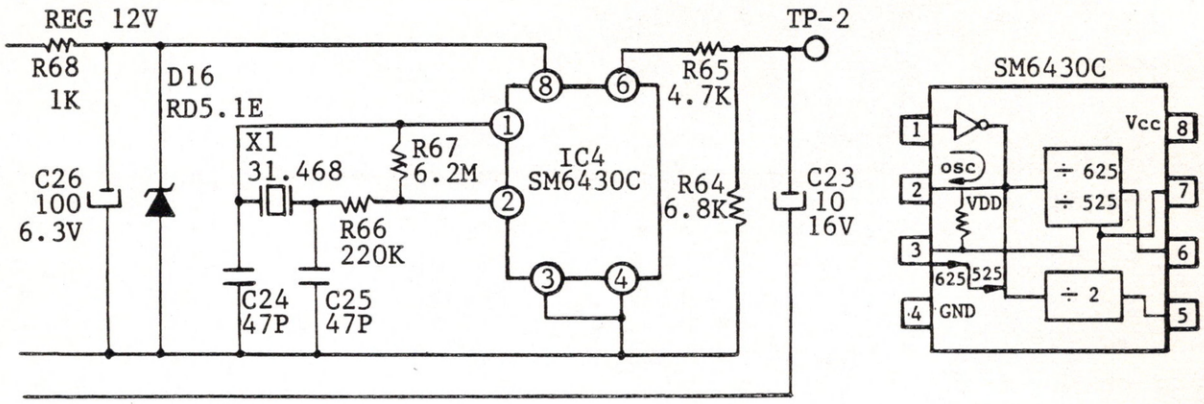
The Internal VD Generator circuit has been changed, as shown in the schematics below. This change does not affect machine operation, but was made to incorporate more widely availiable components. Therefore it is not necessary to modify earlier units.

FORMER CIRUIT (CS-1 BOARD)



Ref: VTRW 79-93

NEW CIRCUIT (CS-1 BOARD)



PARTS USED IN NEW CIRCUIT

Parts	Value	Part Number
IC4	SM6430C	8-759-906-43
X1	X'TAL 31.648 kHz	1-527-340-00
D16	RD5.1EB	8-719-151-07
C23	10 µF/50V	1-123-356-00
C24, C25	47 pF, mica	1-107-677-00
C26	100 µF/10V	1-121-413-00
R67	6.2MΩ metal film	1-202-664-00

(all other resistors are ¼W carbon)

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Date: November 1979 **No.** 15

Model: HVC-1000

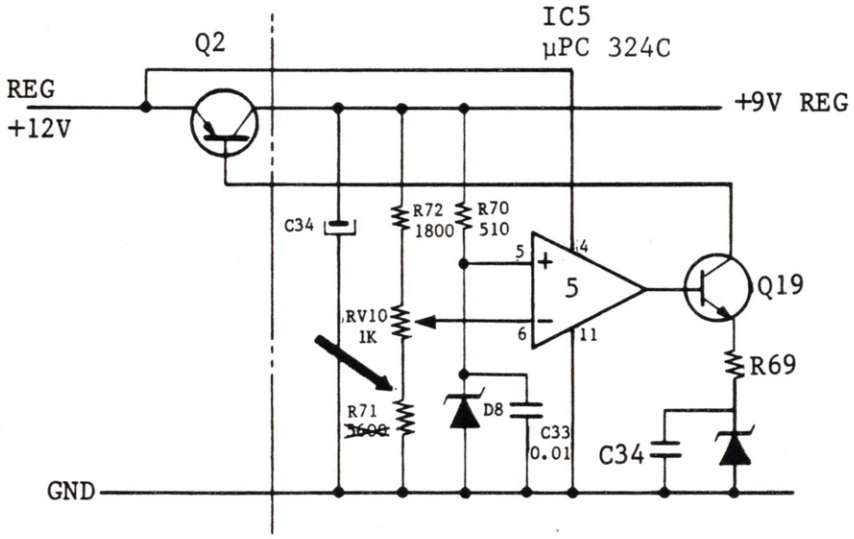
CAMERA

Subject:

+9V REGULATOR ADJUSTMENT

Either diode type 1SZ51 or 1S2771 can be used as the Zener voltage reference diode, D8 (PR-16), in the +9V regulator circuit; both types may be found in units. These two diodes are compatible, but not identical in characteristics. Because of these differences, the +9V regulator output adjustment performed with RV10, cannot always be made to the specifications described in the service manual procedure. Accordingly, R71 has been changed from 5600 to 4700 ohms, so that adjustment can achieved in both cases.

PR-16 BOARD



Factory modified serial numbers 14,001 and higher.

Ref: VTRW 79-88

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Date: November 1979 **No.** 16

Model: AVC-3450

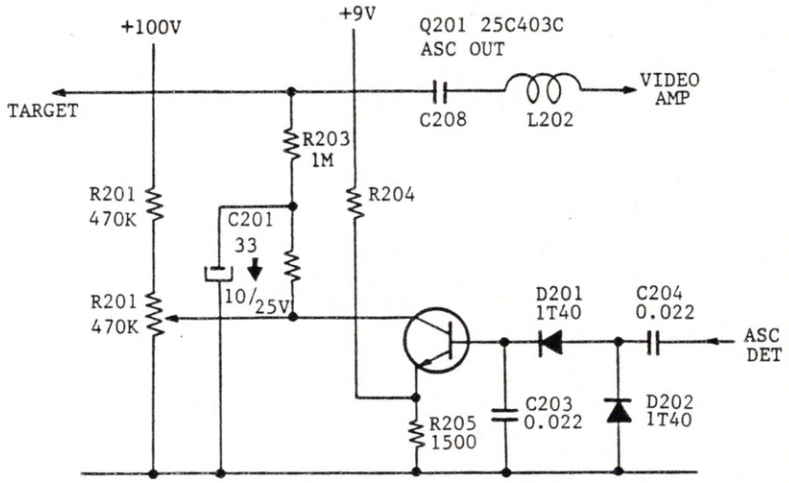
CAMERA

Subject: AUTOMATIC SENSITIVITY CONTROL (ASC) IMPROVEMENT

This modification can be performed on units with serial numbers 36,500 and lower. Units with higher serial numbers have been modified prior to shipment.

The Automatic Sensitivity Control (ASC) will search for the optimum vidicon target voltage. In order to speed up this process, which could cause lag, capacitor C201, in the target control circuit (CHF Board), can be changed from 3.3 uF to 10 uF.

CHF BOARD



Ref: VTRW 79-109

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Date: December 1979 **No.** 17

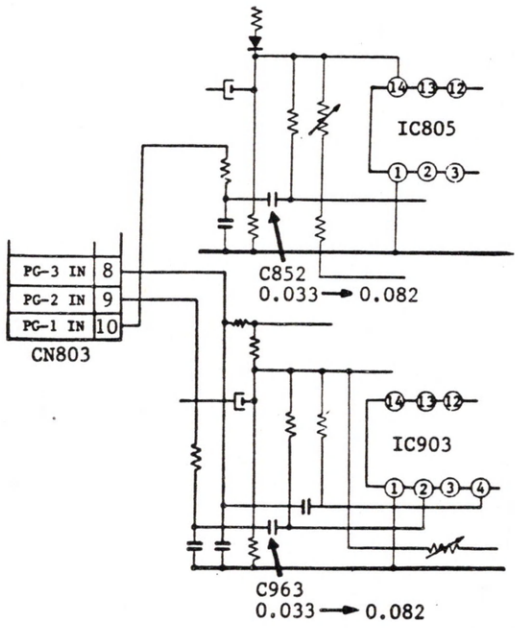
Model: VO-3800

Subject: FWD MODE SET UP WHILE UNTHREADING

This modification affects units with serial numbers below 16,381 (US) and 20,671 (CAN). Units with higher serial numbers have been modified in production.

While in the UNTHREADING mode, the unit may not go into the FWD mode, in response to pressing the PLAY button. If this situation occurs, changing capacitors C852 and C963 on the SV-2 board (or SV-2A), from 0.033 µF to 0.082 µF, will restore correct operation.

	OLD	NEW
C852, C963	0.033 µF	0.082 µF
Part Number	--	1-108-362-00



Ref: VTRW 79-49

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Date: December 1979 **No.** 18

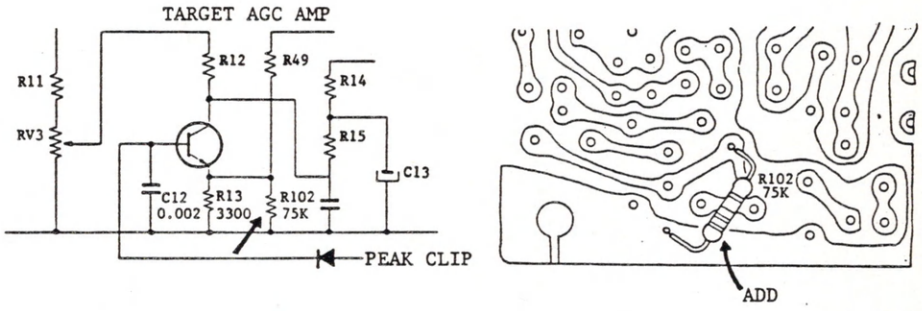
Model: AVC-1400A, -1420

Subject: EXCESSIVE VIDEO LEVEL COMPENSATION

This modification has been applied to selected units beginning with the following serial numbers: AVC-1400A; 25,701 and higher
AVC-1420; 22,701 and higher

Due to variation in vidicon characteristics, the video output signal may exceed the specified video level (0.7 ± 0.07 Vp-p), in some cameras. To compensate for this higher level, resistor R102 (75kΩ) can be added in parallel to R13 (3300Ω), effectively decreasing the video level through the TARGET AGC AMP on the P board. This resistor has been installed in production, only as necessary, in units with serial numbers mentioned above. It can be added to units with earlier serial numbers, if excessive video level is noticed.

P BOARD



Ref: VTRW 79-108

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Date: December 1979 **No.** 19

Model: VO-2860

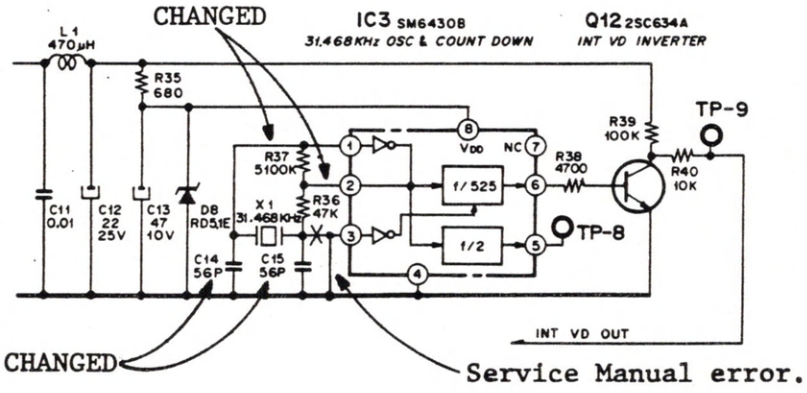
Subject: IMPROVED INTERNAL VERTICAL DRIVE GENERATOR

This change becomes effective in units with serial numbers above 14,541 (US) and 20,601 (CAN).

The INTERNAL VERTICAL DRIVE GENERATOR circuit on the ED-4 board has been changed as shown below to stabilize its operation. Other production changes have also been included.

The following parts have been changed:

IC3;	SM6430B	changed to	SM6430C (P.N. 8-759-906-43)
C14,C15;	56pF	"	47pF, mica
R37;	5200kΩ	"	6.2MΩ, W, metal film
R36;	47kΩ	"	220kΩ, W, carbon



NOTE: There is an error in the service manual schematic, which shows pin 3 of IC3 incorrectly connected to X1. Pin 3 should be connected to ground, as shown in the preceding figure.

Ref: VTRW 79-99

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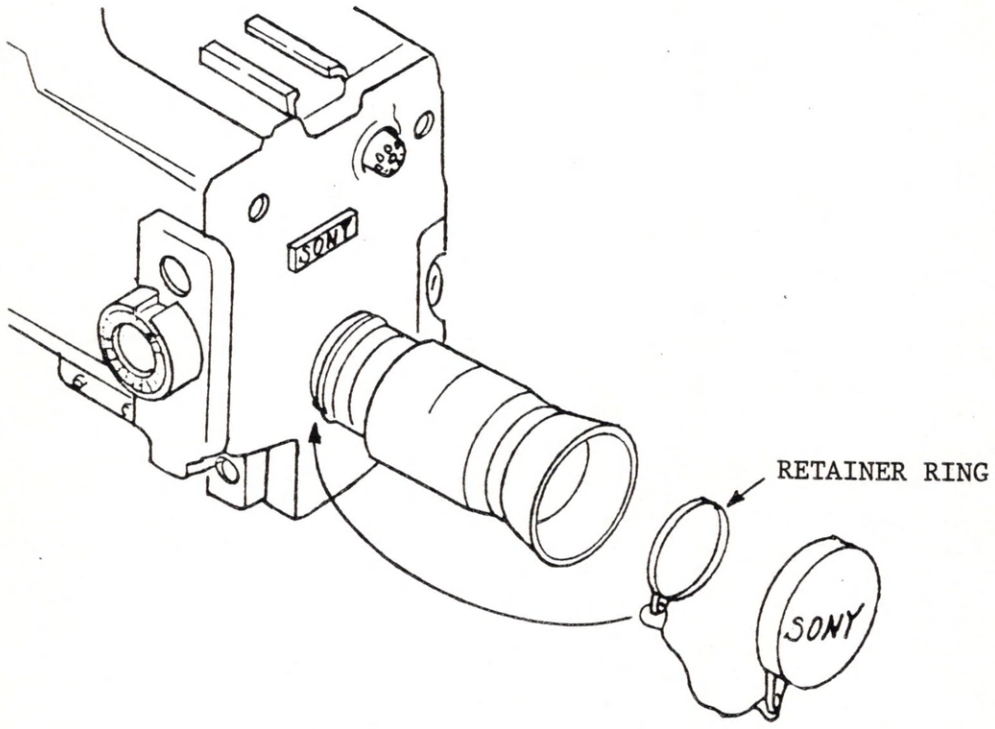
Date: January 1980 **No.** 20

Model: DXC-1610, HVC-1000

Subject: LENS CAP RETAINER

A new lens cap, with an attached retainer ring, is used with the DXC-1610 and HVC-1000 video cameras. Only this new cap and ring will be made availiable for replacement.

NOTE: The retainer ring should be slipped over the threaded side of the lens before mounting, between the camera body and the lens. The figure illustrates this attachment on a DXC-1610.



3-706-174-00 → X-370-504-90
lens cap (DXC-1610)

3-706-295-00 → 3-706-386-00
hood cap (HVC-1000)

Ref: VTRW 79-136

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Date: January 1980 **No.** 21

Model: SVM-1010

Subject: PB, SATELLITE AND MAIN HEAD PART NUMBERS

The PB, SATELLITE and MAIN heads are now being supplied as individual parts rather than as a single assembly. (The overall cost of replacement and adjustment of these separate parts remains the same, despite this change in availability.)

PART	FORMER	NEW
PB HEAD	A-603-603-5A	8-825-618-30
SATELLITE HEAD	A-603-603-6A	8-825-716-60
MAIN HEAD	A-603-603-7A	8-825-716-00

Ref: VTRW 79-141

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Date: February 1980 **No.** 22

Model: HVC-1000

CAMERA

Subject: PICTURE DISTORTION AND BEAM DEFICIENCY AT VERY HIGH TEMPERATURE

This modification can be added to units with serial numbers below 19,501; higher numbered units have been modified at the time of production.

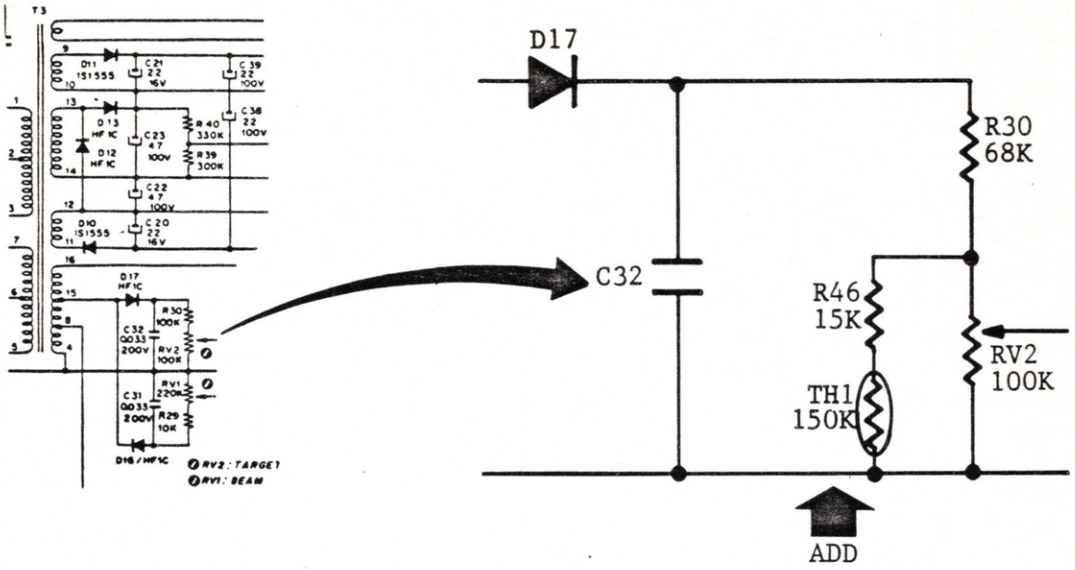
When operated at very high temperatures (over 100°F), the camera may display beam deficiency and consequent picture distortion. If the camera is to be operated at high temperatures, the following compensation modification may be added.

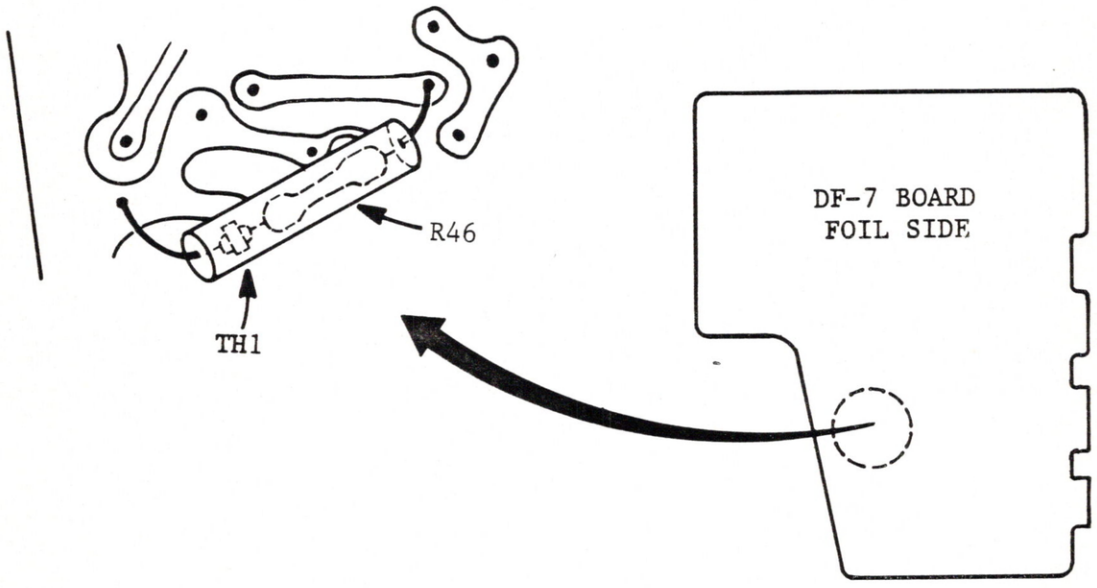
Connect a thermistor, Th1 (150K), and a resistor, R46 (15K), in parallel with RV-2 (on the DF-7 board), as shown below. Enclose the thermistor and resistor in a single piece of vinyl insulation and solder to the foil side of the board.

After performing this modification, re-adjust the target voltages (Section 3-2-4, HVC-1000 Supplement-1). The values of the target voltages are printed on the Trinicon tube. If the values are printed in black ink, adjust the voltages to 5/6 of the indicated values. If the values are printed in red ink, adjust the voltages to the indicated values.

Ref: REF: VS-79-60

DF-7 BOARD


D17
R30
68K
C32
R46
15K
RV2
100K
TH1
150K
ADD


R46
TH1
DF-7 BOARD
FOIL SIDE

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Date: February 1980 **No.** 23

Model: LVO-7000; VO-2610,-2611,-2630
VP-2010,-2011,-2030

Subject: CHANGE IN PAUSE COMMAND, CHATTERING PREVENTION CIRCUIT

This modification has been applied to units with serial numbers listed below; it may be applied to units with earlier serial numbers if necessary.

Effective serial numbers:

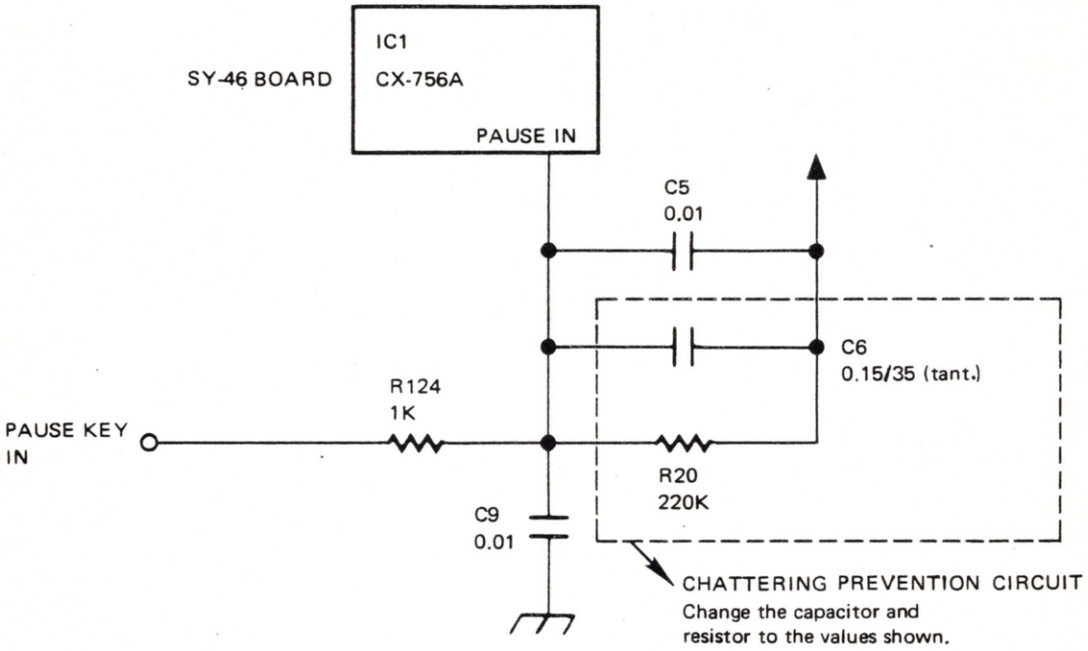
Model	US Ver.	CAN Ver.
LVO-7000	10,391 and higher	10,031 and higher
VO-2610	10,421 "	11,201 "
VO-2611	10,301 "	20,101 "
VP-2010	17,731 "	11,051 "
VP-2011	12,001 "	20,151 "
VO-2630	48,701 "	AEP Version
VP-2030	40,301 "	"

To prevent chattering from switching transients, the PAUSE COMMAND pulse has been damped at the input (SY-46/47 board) of the PAUSE memory. (The width of the PAUSE COMMAND pulse is very narrow, and therefore easily confused with switch noise.)

If these VTRs are used with the RM-300 controller, the PAUSE signal may not be recognized, due to this additional damping circuit. If this situation exists, the time constant of the prevention circuit can be changed to re-establish the PAUSE function.

Ref: REF: VS79-87

The figure below shows the changes applicable to units using the SY-46 board. The table that follows lists the necessary component changes according to the VTR model number.



MODEL	BOARD	REF.NO.	FORMER PART	REF.NO.	NEW PART
V0-2630 V0-2610/2710	SY-47	C8 R37	1μ F/35V (ta) 22KΩ	C8	0.15μF/35V (ta) (1-131-210-61)
LV0-7000 V0-2611/2711 V0-2631	SY-47	C8 R37	0.22μF/35V (ta) 150KΩ	R37	220KΩ (1-246-529-25)
VP-2010/2110 VP-2030	SY-46	C6 R20	1μ F/35V (ta) 22KΩ	C6	0.15μF/35V (ta) (1-131-210-61)
VP-2011/2111 VP-2031	SY-46	C6 R20	0.22μF/35V (ta) 150KΩ	R20	220KΩ (1-246-529-25)

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Date: March 1980 **No.** 24

Model: SVM-1010

Subject: REMOTE CONTROL FAILURE

Due to the stiffness of the cable bushing and the remote cable (see the figure), the orange lead inside the cable may break after extensive use.

To prevent this, perform the following modification:

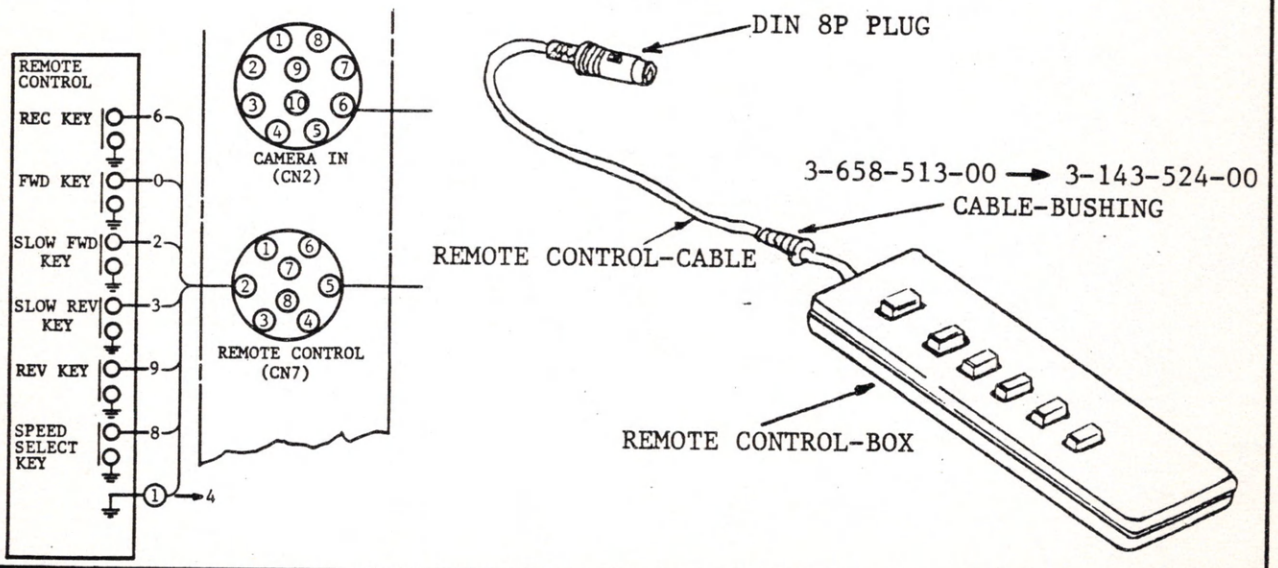
1. Change the wire connection for the remote control.

   1-1. Change the remote control box ground connection; from pin 1 (brown) to pin 4 (yellow).

   1-2. Change the pin 7 connection of the DIN 8P plug; from pin 1 (brown) to pin 4 (yellow).

   NOTE: Perform both Steps 1-1 and 1-2 concurrently. An improved cord with an 8 pin DIN plug (P.N. 1-555-002-00), is now available for replacement purposes. Therefore, always perform Step 1-1, when replacing the old cable with the new type.

2. Replace the cable bushing with the improved version, part number 3-143-524-00.



Ref: REF: VTRW 79-147

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Date: March 1980 **No.** 25

Model: VO-2860

Subject: NEW ALIGNMENT TAPE

A new tape is now available for aligning the VO-2860. See Table 1 for differences between the old and new tapes.

Some new alignment procedures are necessary when using the new tapes. These changes are described on the following pages.

Old Tape: RR5-1SB Part Number 8-960-015-11
New Tape: RR5-2SB Part Number 8-960-015-12

1. Comparison of Old and New Tapes:

	RR5-1SB (Old)			RR5-2SB (New)		
Tape Counter	Video Track	Audio Track	T/C Track	Video Track	Audio Track	T/C Track
000-137 (5 MIN)	Monoscope	3KHz 0dB	---	Monoscope	3KHz 0dB	---
137-249 (5 MIN)	Color bar (75%)	3KHz 0dB	1.2 KHz	Color bar (75%)		1.2 KHz
249-346 (5 MIN)	RF sweep	3KHz 0dB	---	RF sweep	---	---
346-390 (2.5 MIN)	CTL only	14KHz 0dB	---	Modulated 20T	1KHz 0dB	---
390-432 (2.5 MIN)	CTL only	10KHz -10dB	---	Monoscope (+ burst)	10KHz -10dB	---

Table 1

Ref: REF: VTRW 79-140

2. Changes in the Video Alignment Procedure

NOTES:

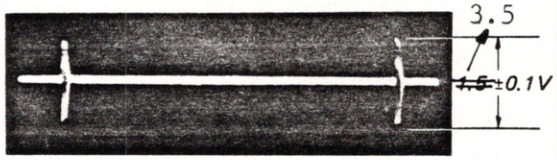
* Playback Chroma RF Output Level Adjustment
  The recorded Chroma level of the RR5-2SB tape is 50% higher than that of the RR5-1SB tape.

* Y Phase Equalizer Adjustment
  Play the monoscope (B/W) segment of the tape for this adjustment.

* Playback Y/C Delay Adjustment
  Play the modulated 20T pulse segment of the tape when making this adjustment.

2-1 Time Code Track Detect Level Adjustment (Section 11-7-18)

	RR5-1SB (Old)		RR5-2SB (New)
TP-10/DM-7	1.5 ± 0.1V	⟶	3.5 ± 0.1V

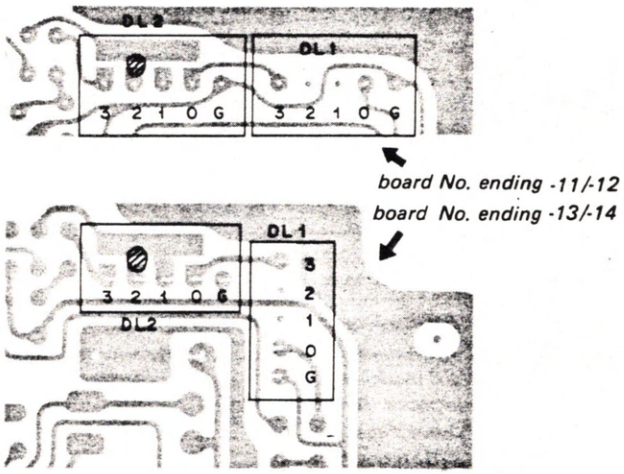
machine conditions for adjustment	measuring point	adjustment
Playing back a Time Code prerecorded tape such as Alignment Tape type RR5-2SB, color bar section.	*TP-10/DM-7*  *EXT TRIG : TP-7/CS-8*	*R191/DM-7*

2-2 Y/C Delay Time Adjustment (Section 11-7-22)

* Play the modulated 20T pulse on the alignment tape.

* Connect scope to TP-1 on the YE-2 board; set the 1-usec Delay to 5 usec; trigger the scope externally on the DM-7 board.

* Solder the DL-2 tap on the YE-2 board and adjust for the results shown below.

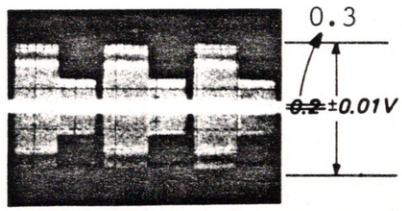


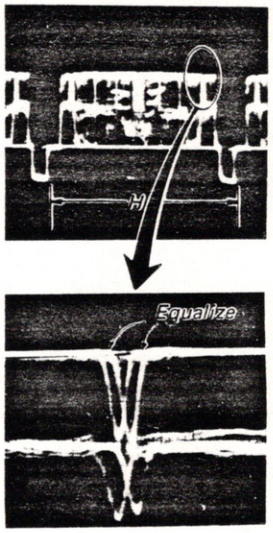
YE-2 board DL-2

machine conditions for adjustment	measuring point	adjustment
• *PLAYER machine VIDEO IN ; Sin² wave signal in* • *PLAYER machine ; Playing back the self-recorded Sin² wave signal.* • *RECORDER machine ; E-E mode with INPUT SELECT SW ; DUB position*	TP-1/YE-2 *modulated 20T pulse segment waveform*  *(GOOD)* *(NG)*	◐ *DL2/YE-2*

2-3 Playback Chroma-RF Output Level Adjustment (Section 11-1-5)

	RR5-1SB (Old)	RR5-2SB (New)
TP-2/DM-7	0.2 ± 0.01V(p-p)	0.3 ± 0.01V(p-p)

machine conditions for adjustment	measuring point	adjustment
• *Playing back Alignment Tape's Color Bar* • *Set the TRACKING control to its center detent.*	*TP-2/DM-7*  0.3 ~~0.2~~ ±0.01V *EXT TRIG : TP-7/CS-8*	◐ *R26/PS-1D*

machine conditions for adjustment	measuring point	adjustment
• *Playing back the Alignment Tape's Monoscope*	*TP-1/DM-7*  *EXT TRIG : TP-22/DM-7*	*T1/DM-7*

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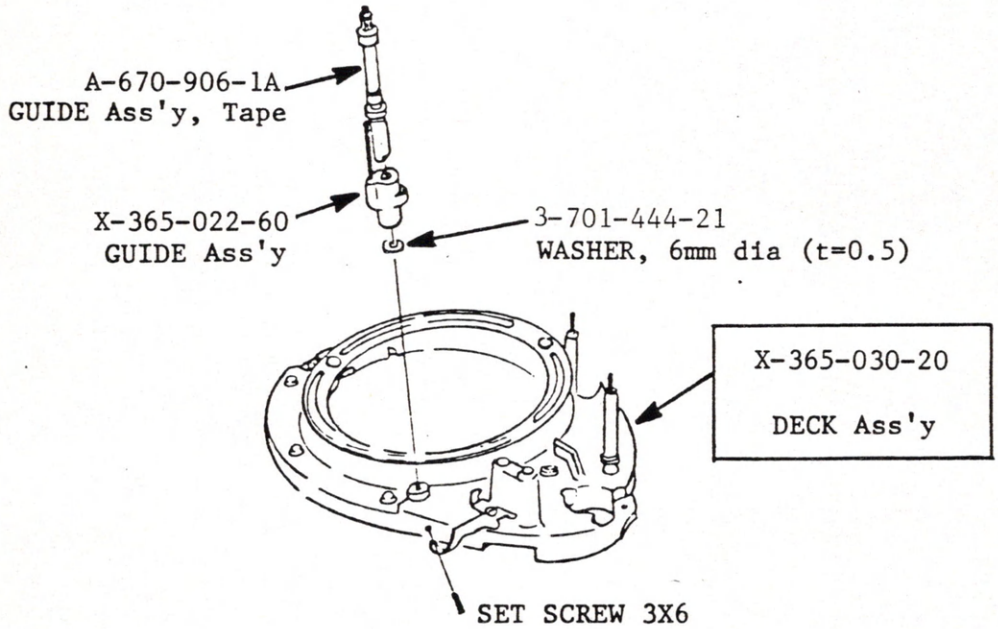
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Date: May 1980 **No.** 26R

Model: U-MATIC 2000 SERIES, TVO-9000, LVO-7000

Subject: DECK ASSEMBLY REPLACEMENT

The deck assembly is now available as a separate part for replacement purposes. (Replacement of the deck would be necessary if one of the fixed tape guides was broken.)



The tape guide assembly is fixed in some machines. If this is the case, both the guide assemby and the tape guide assembly should be ordered separately.

Ref: VTRW 79-146

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Date: March 1980 **No.** 27

Model: SLO-320

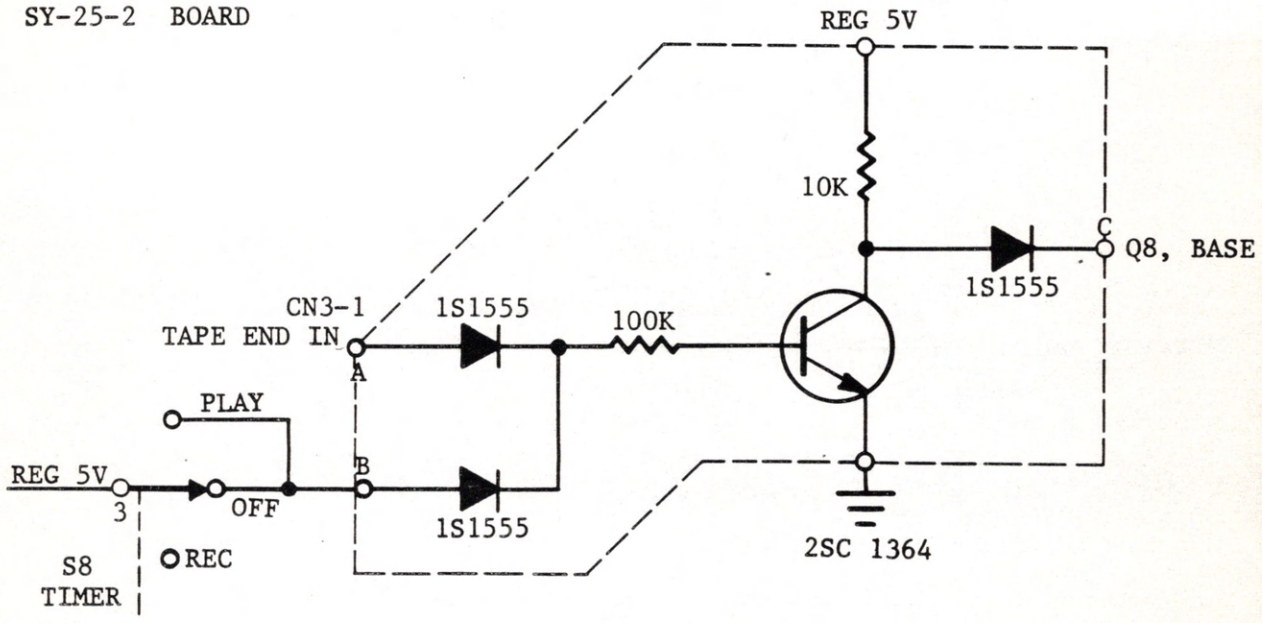
Subject: TIMER-RECORD SYSTEM CONTROL

During Timer-Record the following events will occur at tape end: The RECORD mode is switched off and tape motion is stopped. The REW LAMP lights, but the REW mode is not initiated. The drum motor continues to turn until power is switched off.

This series of operations, especially the absence of a REW cycle, occurs to prevent repeated Timer-Recordings.

If desired, the STOP mode can be set up at the end of the Timer-Record mode by adding the following circuit to the SY-25-2 board.

(This modification has not been added in production, but is offered as a user option.)



Ref: REF: VTRW 79-148

Parts required:

Type	Description	Part Number	Qty
Transistor	2SC1364	8-729-663-47	(1)
Diode	1S1555	8-719-815-55	(3)
Resistor	10k 1/4W carbon	1-246-497-15	(1)
Resistor	100k 1/4W carbon	1-246-521-15	(1)

Timing Table:

			A	B	C
A: TAPE END	L	STOP: C: H	H	H	L
TAPE END	H		H	X	L
B: PLAY or OFF	H		L	H	L
REC	X		L	X	H

X = DON'T CARE STATE

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Date: March 1980 **No.** 28

Model: SLP-100, -300; SLO-260, -320, -340; DPR-500

Subject: 1) DRUM ASS'Y PART NUMBER CHANGE
2) CHANGE OF VIDEO HEAD ASS'Y

To improve head-to-tape contact when using long play tape, the VIDEO HEAD ASS'Y has been changed. Appropriately, the part numbers for both the VIDEO HEAD ASS'Y and DRUM ASS'Y have also been changed. Refer to the following table for the model and part number changes.

MODEL	DRUM ASS'Y		VIDEO HEAD ASS'Y	
	OLD P.N.	NEW P.N.	OLD P.N.	NEW P.N.
SLP-100 SLO-260	A-670-911-0B (RS-1A)	A-670-929-8A (DSU-09R-R)	A-676-200-9A (RSV-1A)	A-676-204-1A (DSR-09-R)
SLP-300 SLO-320 SLO-340	A-605-000-9A (RS-9)	A-605-006-6A (DSH-09D-R)		
DPR-500	A-670-924-2A (RS-5)	A-670-928-5A (DSU-09B-R)		

Ref: VTRW 80-12 (VTRW 78-154, VTRW 79-24)

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700 W. Artesia Blvd. Compton, CA. 90220

Date: April 1980 **No.** 29

Model: VO-4800

Subject: UPPER DRUM STANDARDIZATION

The UPPER DRUM (RV-8) for the VO-4800 has been standardized; the same part will be used in the PAL/SECAM model (DUR-22-R).

The old Part Number has been standardized to the number listed below:

Old		New
A-670-926-04 UPPER DRUM (RV-8)	➡	A-670-931-3A UPPER DRUM (DUR-22-R)

Ref: VTRW 80-7

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Date: April 1980 **No.** 30

Model: VO-2630, VP-2030

Subject: RF-OUT CONNECTOR CHANGE

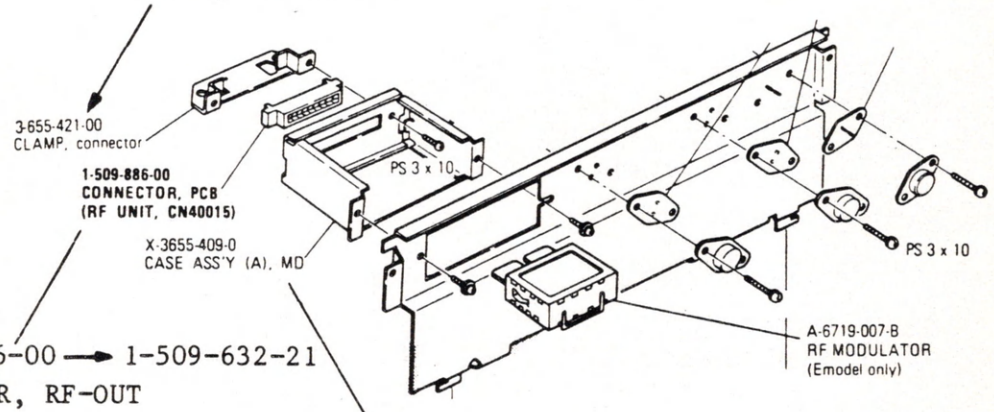
These changes are effective on the following units:

VO-2630 AEP - S.N. 48,701 and higher
VO-2630 UK - S.N. 42,801 and higher
VO-2630 E - S.N. 41.201 and higher

VP-2030 AEP - S.N. 40,801 and higher
VP-2030 UK - S.N. 40,401 and higher
VP-2030 E - S.N. 40,301 and higher

The RF-OUT connector has been changed in the units listed above. This change has also necessitated changing the CLAMP, connector and CASE ASS'Y (A), MD. Only new parts will be supplied as replacement parts, which are not interchangeble with the old ones. Therefore, if replacement of any single part is required, all three parts should be replaced.

3-655-421-00 → 3-656-828-00
CLAMP, connector



1-509-886-00 → 1-509-632-21
CONNECTOR, RF-OUT

X-365-540-90 → X-365-541-70
CASE ASS'Y (A), MD

Ref: VTRW 80-14

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VTR

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Date: April 1980 **No.** 31

Model: VO-2630, VP-2030

Subject: ADDITIONAL SPEED ADJUSTMENT PULLEY

The tape speed is adjustable in increments of 4.34 Hz, with various diameter motor pulleys. To increase the range of this speed adjustment, an additional motor pulley (P.N. 3-655-431-91) has been provided. This new range of pulleys has been used to correct tape speeds in units with serial numbers 40,001 and higher.

PARTS NUMBER	TAPE SPEED VARIATION
3-655-431-01	4.34Hz
3-655-431-11	4.34Hz
3-655-431-21	4.34Hz
3-655-431-31	4.34Hz
3-655-431-41	4.34Hz
3-655-431-51	4.34Hz
3-655-431-61	4.34Hz
3-655-431-71	4.34Hz
3-655-431-81	4.34Hz
3-655-431-91	

INCREASES

Additional Pulley

Ref: VTRW 80-13

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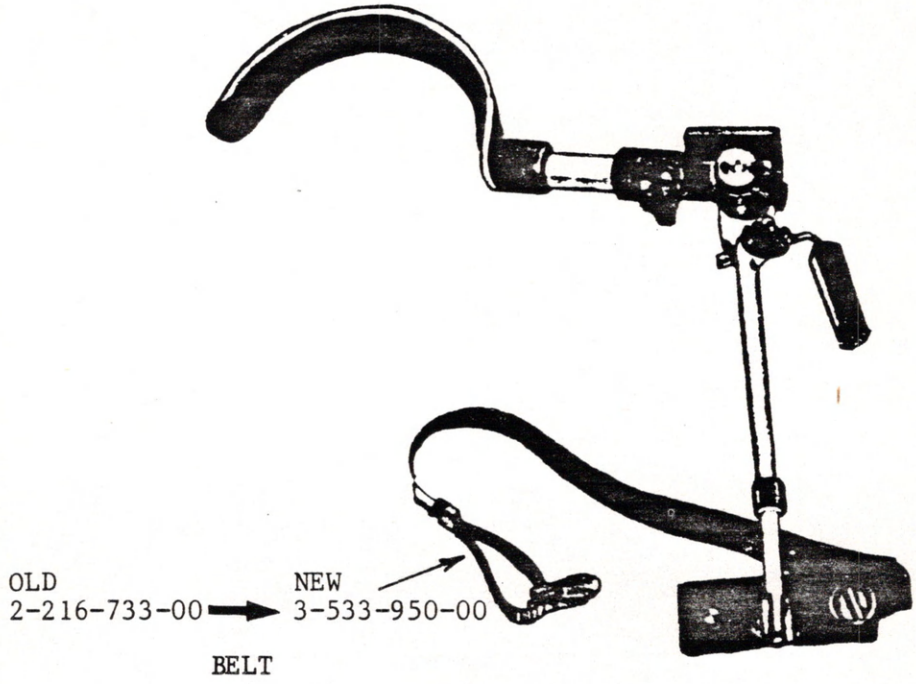
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VIDEO TECHNICAL PUBLICATIONS DEPT.
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Date: April 1980 **No.** 32

Model: VCT-4

Subject: NEW BELT PART NUMBER

A new type belt will now be supplied with the VCT-4 camera brace. A new part number (P.N. 3-533-950-00) will be used to identify this belt.



ACCSSY

Ref: REF: VTRW 80-11

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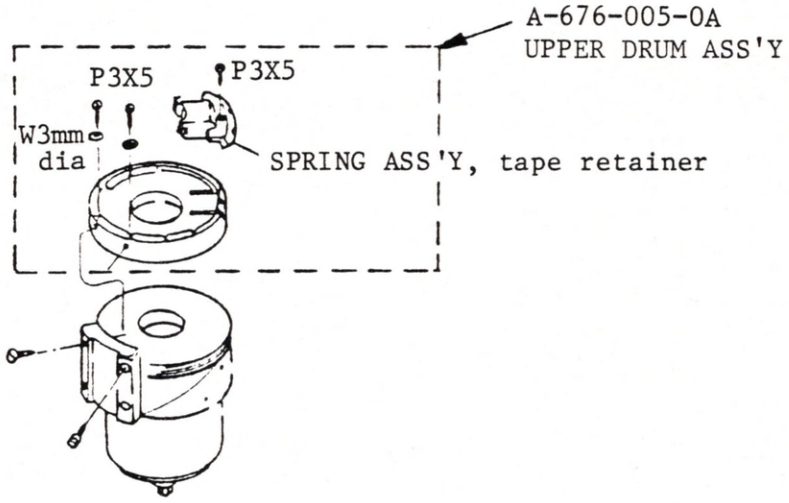
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Date: April 1980 **No.** 33

Model: SLP-100, SLO-260, DPR-500, SLP-300

Subject: UPPER DRUM ASS'Y PART NUMBER

The part number of the UPPER DRUM is not shown in the service manual, but should be listed as A-676-005-0A. The SPRING ASS'Y, tape retainer is included as part of the UPPER DRUM ASS'Y.



Ref: VTRW 80-17

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Date: May 1980 **No.** 34

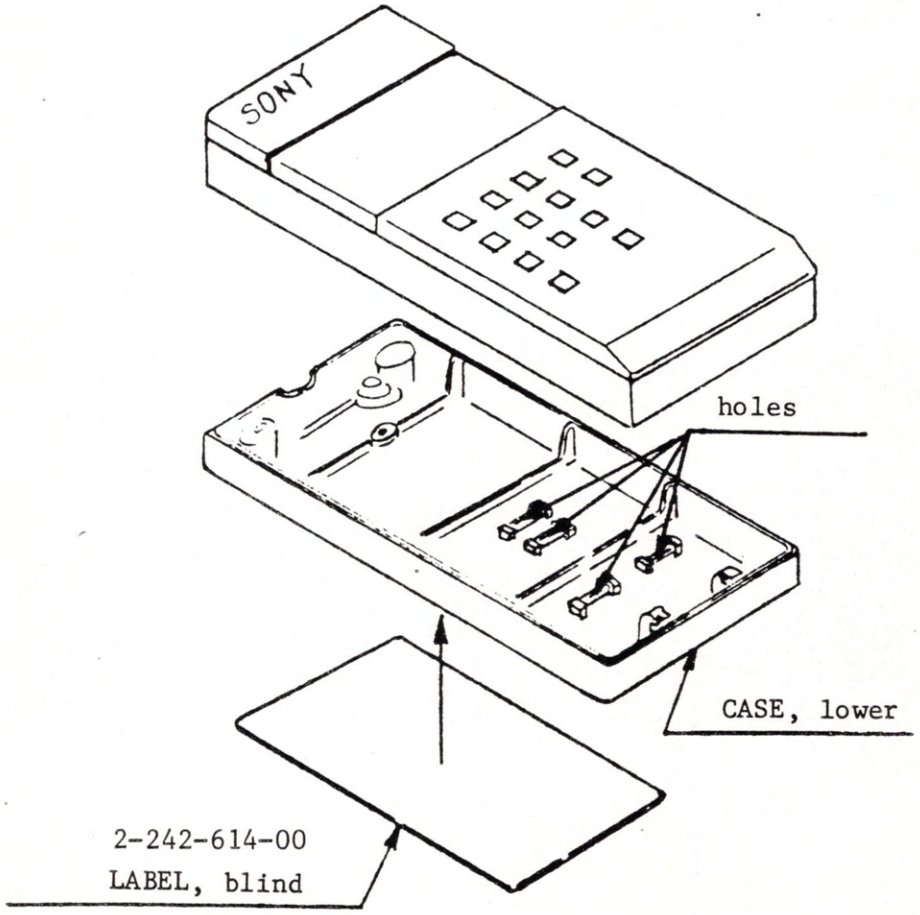
Model: RM-300

Subject: PACKAGING CHANGE

This change becomes effective on units with serial numbers 25,501 and higher.

A new type of case is being used in current production. The new part, "CASE, lower", has four additional holes on the back of the case. For this reason, a cover plate, "LABEL, blind", is necessary to cover the holes.

Only the new lower case will be supplied as a replacement; therefore, the cover plate (LABEL, blind P.N. 2-242-614-00) should also be ordered.



Ref: VTRW 80-15

ACCSSY

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Date: May 1980 **No.** 35

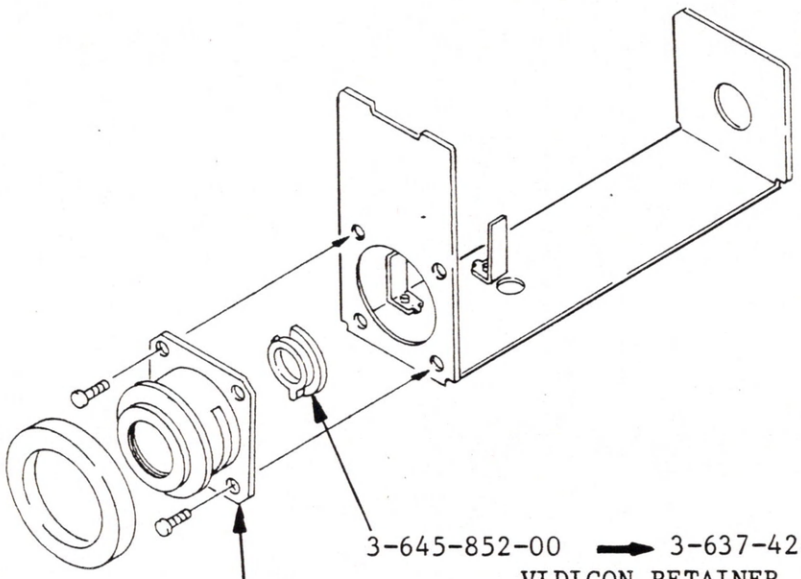
Model: AVC-1400

CAMERA

Subject: CHANGE OF LENS MOUNT ASS'Y

To use the optional 25mm F0.78 lens, the LENS MOUNT ASS'Y and the VIDICON RETAINER have been changed in units with serial numbers 26001 and higher.

The new and former parts are not directly compatible; therefore, it is necessary to order both parts if either requires replacement.



Ref: VTRW 80-23

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Date: May 1980 **No.** 36

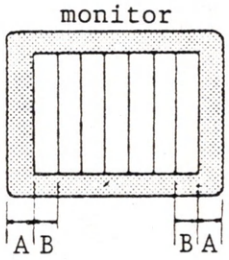
Model: DXC-1640

Subject: CHANGE OF VIDEO INPUT LEVEL ADJUSTMENT
CHANGE OF AUTO IRIS ADJUSTMENT

The specifications for the video input level sensitivity adjustments in the manual mode, have been increased.

1. Video Input Level Adjustment (Section 3-6-3, Page 3-7);

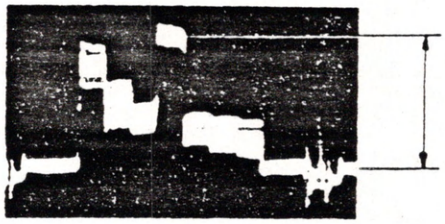
Object : Color-Bar pattern as shown.



A=B

Iris Opening : F2
Measurement : Oscilloscope
Scope Trigger : CR-1C board TP-16 (VD)
to select an H line in center

PR-24 board
TP-11 (GND : TP-14)



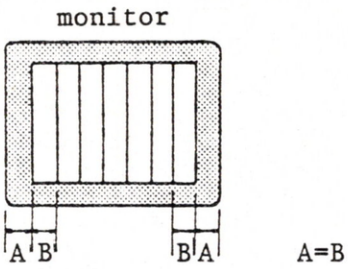
PR-24 board RV1

150 ± 5mV → 210 ± 5mV

CHANGE

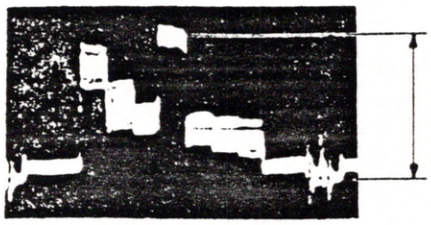
2. Auto Iris Adjustment (Section 3-6-13, Page 3-10);

2. EE level adjustment
Object : Color-Bar pattern as shown.



Iris Opening : A
Measurement : Oscilloscope
Trigger : CR-1C board TP-16 (VD)
to select an H line in center.

PR-24 board
TP-11 (GND : TP-14)



DF-9 board RV12

230 ± 10mV ➡ 250 ± 10mV

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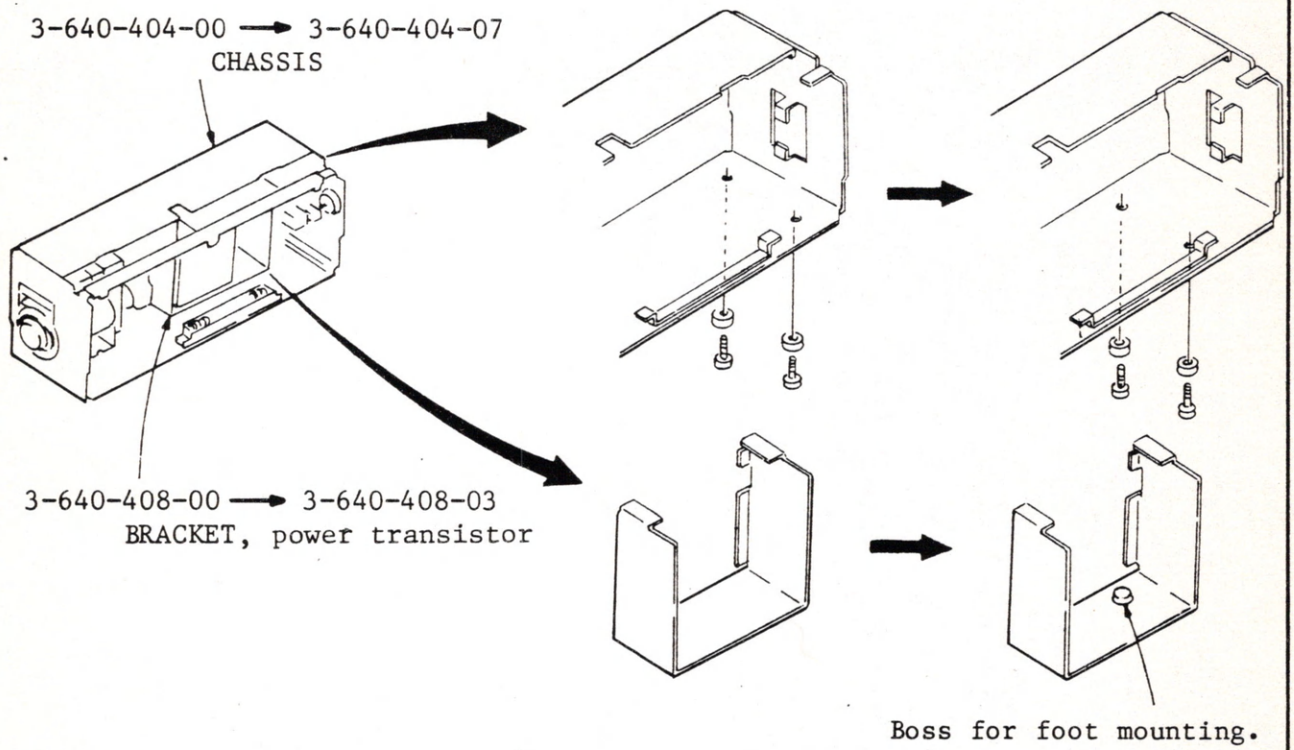
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Date: May 1980 **No.** 37

Model: AVC-3250, -3260

Subject: CHASSIS AND POWER TRANSISTOR BRACKET CHANGE

A new Chassis and power transistor Bracket are used on units with the following serial numbers: 23,401 and higher AVC-3250, -3250SX, -3250(A) DX; 24,601 and higher AVC-3260S; 24,701 and higher AVC-3260(A) DX.



Ref: VTRW 80-21

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Date: May 1980 **No.** 38

Model: DXF-2, DXF-2A, DXF-2CE

Subject: VERTICAL HOLD IMPROVEMENT

This modification has been implemented in DXF-2A (U/C) units with serial numbers 11,401 and higher. The DXF-2CE model has been modified in units with serial numbers 10,001 and higher. Models DXF-2, DXF-2A and DXF-2CE with serial numbers 10,001 through 11,400, may be modified if desired.

To improve Vertical Hold in the viewfinder while the VTR is in the picture search mode, the following changes on the VF-2 board have been made. (See Fig. 1.)

Change R20 from 18k to 10k (DXF-2/A, DXF-2CE)

Change R21 from 470k to 750k (DXF-2, DXF-2A)
to 910k (DXF-2CE)

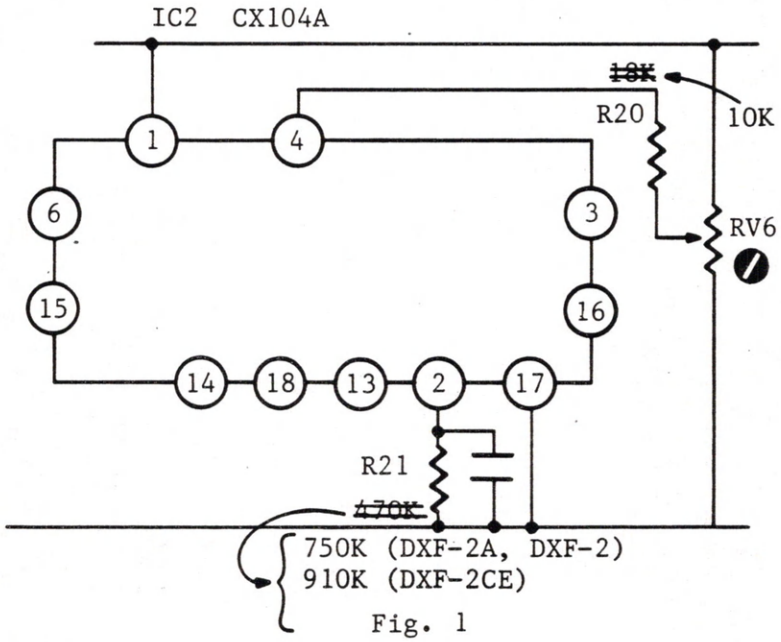


Fig. 1

Ref: VTRW 80-5

These modifications require a change in the V HOLD ADJUSTMENT procedure given in the following service manual sections: Section 2-7-8, DXF-2 (DXC-1610); Section 3-8-8, DXF-2A; Section 2-6-8, DXF-2CE (DXC-1610P).

1). Connect frequency counter to TP-1 and TP-2 (GND) on the VF-2 board.

2). Disconnect VIDEO IN (remove C10 from VF-2 board) and adjust RV6 to the following specifications. (See Fig. 2.)

* DXF-2A	50	$\pm$ 0.5 Hz
* DXF-2CE	41	$\pm$ 0.5 Hz

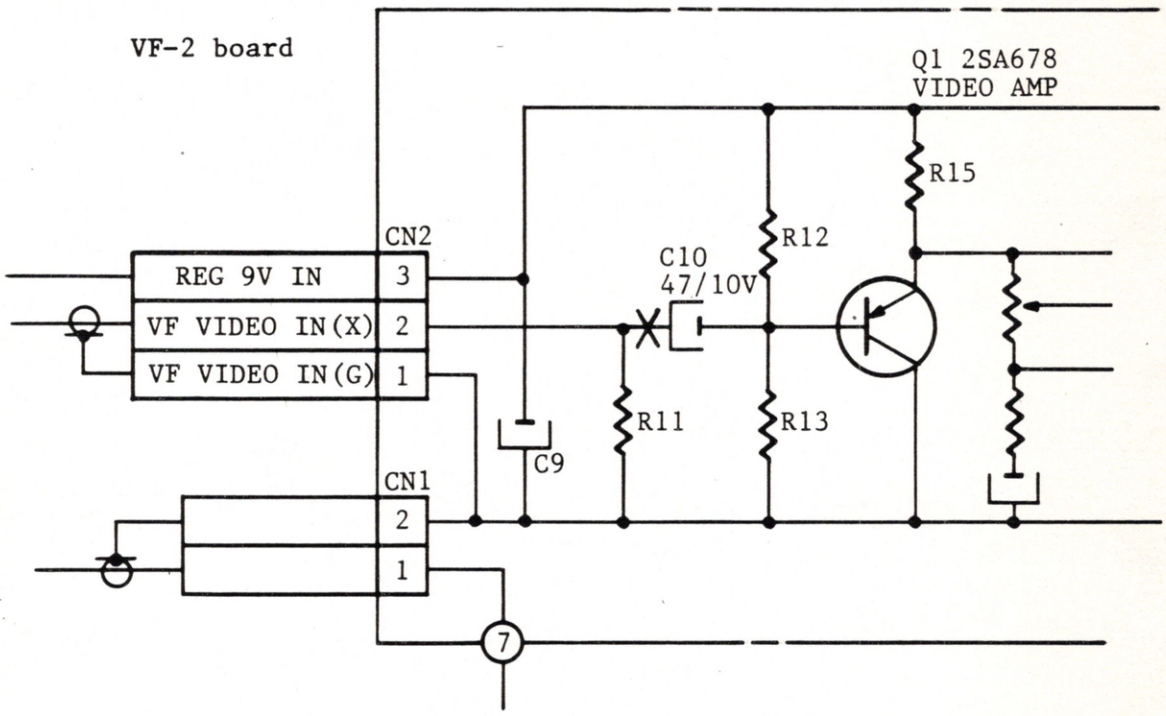


Fig. 2

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Date: May 1980 | No. 39

Model: U-MATIC 2000 SERIES, TVO-9000, LVO-7000

Subject: DEFLECTION PULLEY STANDARDIZATION

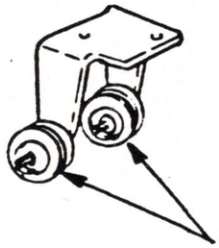
The DEFLECTION PULLEY in these VTRs has been standardized to the type used in the BVU-200 series; however, three different DEFLECTION PULLEY BASES are used. A new base will be necessary if a change of DEFLECTION PULLEY is desired. The following table lists the affected models and serial numbers.

VO-2600	serial numbers to 22,970	(USA)
	serial numbers to 22,300	(CND)
VO-2630	serial numbers to 13,400	(AEP)
VO-2800	serial numbers to 14,870	(USA)
	serial numbers to 20,480	(CND)
VO-2850	serial numbers to 26,310	(USA)
	serial numbers to 30,560	(CND)
VO-2850S	serial numbers to 10,531	(USA)
VO-2860	serial numbers to 12,200	(USA)
	serial numbers to 20,200	(CND)
VP-2000	serial numbers to 32,770	(USA)
	serial numbers to 22,750	(CND)
VP-2030	serial numbers to 11,400	(AEP)
TVO-9000	serial numbers to 10,006	(USA)
	serial numbers to 20,019	(CND)

1) X-365-021-20 (BASE, deflection pulley) BVU-200 Series

2) X-365-541-10 (BASE, deflection pulley) European models

3) X-364-800-53 (BASE, deflection pulley) TVO-9000, LVO-7000 U-MATIC 2000 series



X-365-022-03
(PULLEY, deflection)

Fig. 1

Direction of pulley installation

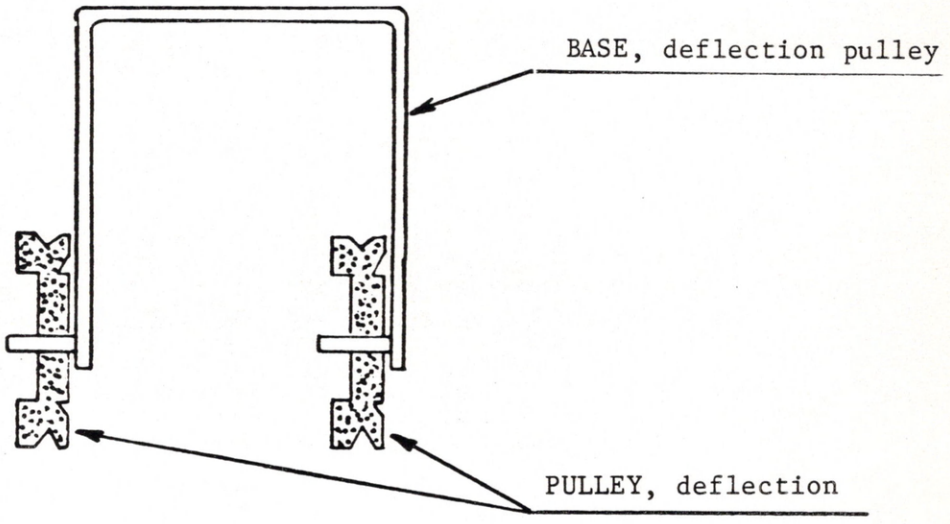


Fig. 2

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Date: June 1980 **No.** 40

Model: SLP-300

Subject: REW IDLER ABRASION AND TAPE PROTECTION

This modification affects units with serial numbers 24,301 and higher.

After a tape (or tape segment) has been played many times, the oxide coating may become scratched and worn. The tape guides and head drum of the machine may also become worn. Together, these tape handling problems can cause the tape to stick, resulting in heavy tape damage. If this same machine is then placed in the REW mode, REW IDLER abrasion can occur, in addition to tape damage.

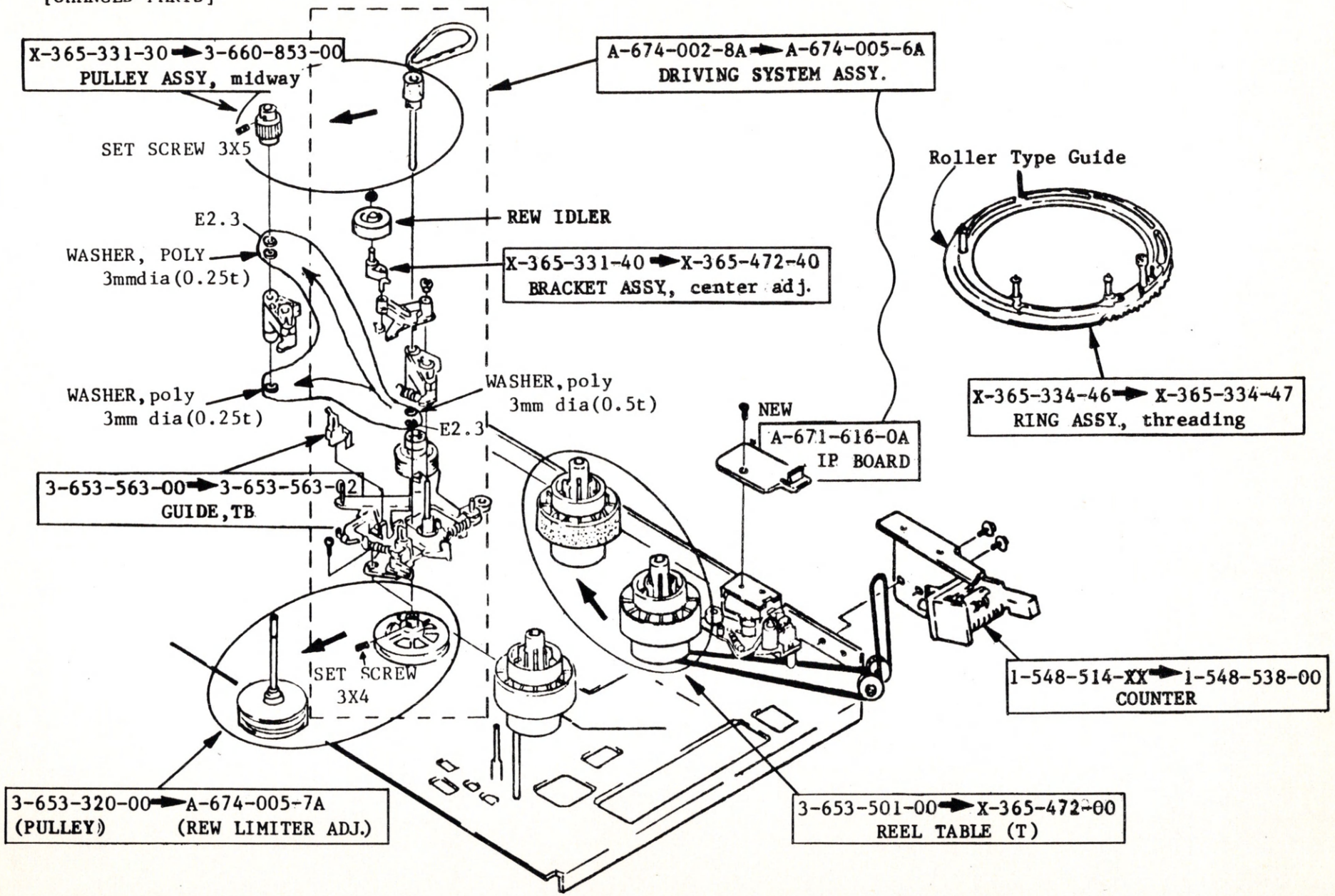
To prevent this type of damage, a rotation detector (IP Board) has been added to the tape counter which places the machine into AUTO-STOP as soon as it recognizes a stopped tape. Changing the midway PULLEY ASSY, REEL TABLE (T) and TB GUIDE will provide additional protection from abrasion. Finally, changing the threading RING ASSY will improve tape handling.

The new midway PULLEY ASSY, REW LIMITER ASSY, REEL TABLE (T), center adj. BRACKET ASSY and DRIVING SYSTEM ASSY are not interchangeable with their old counterparts. If any parts require replacement, all should be replaced.

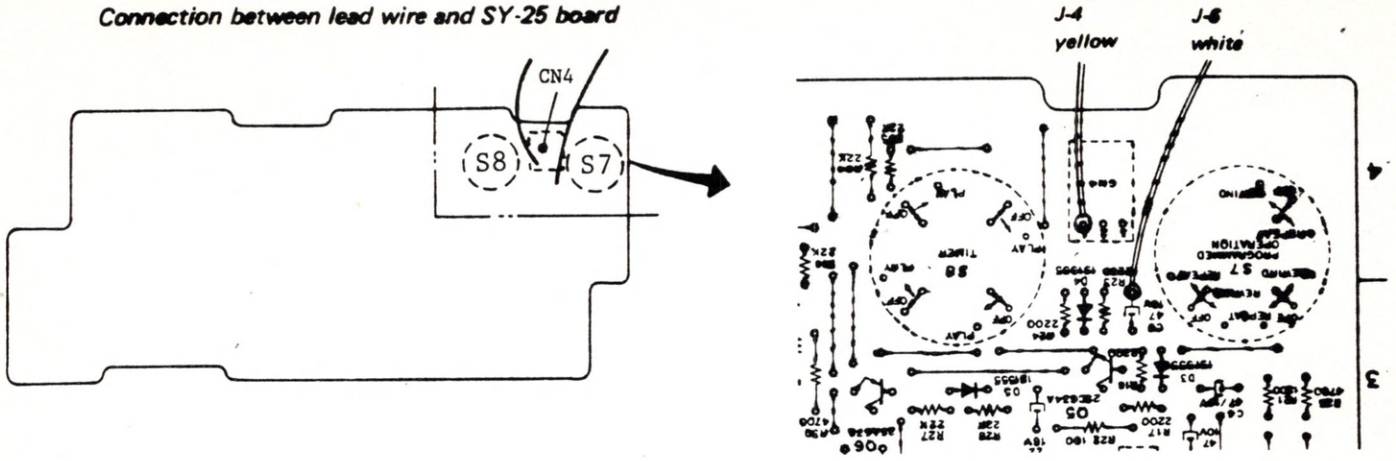
If the machine is placed into AUTO-STOP, check whether this STOP command is caused by the tape machine, the tape or by an ambient condition (a combination of temperature and humidity). After determining the cause of the AUTO-STOP, perform the necessary compensation procedures.

Ref: VTRW 80-27

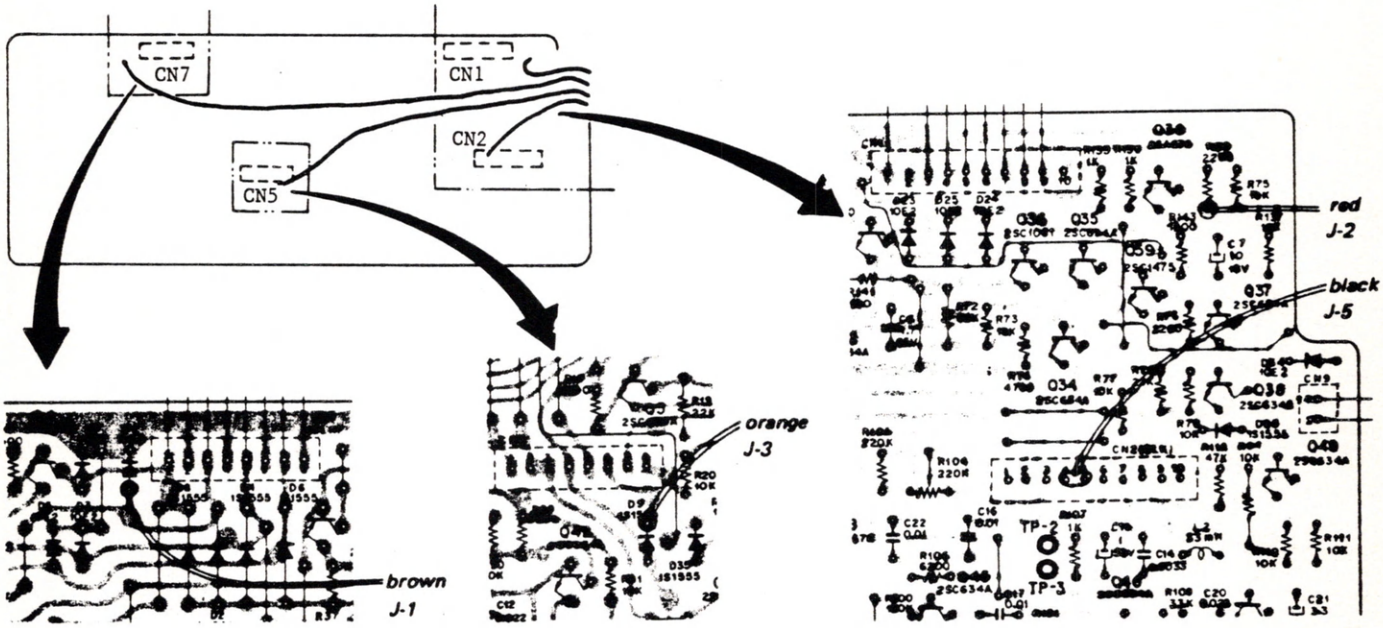
[CHANGED PARTS]

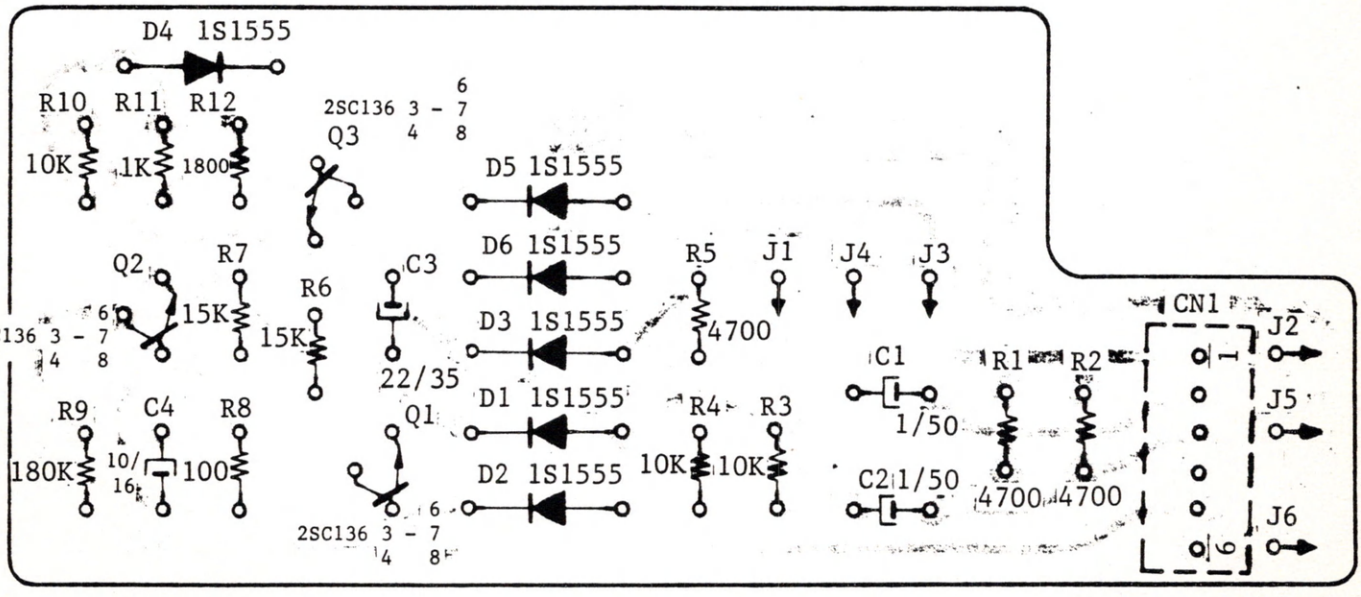


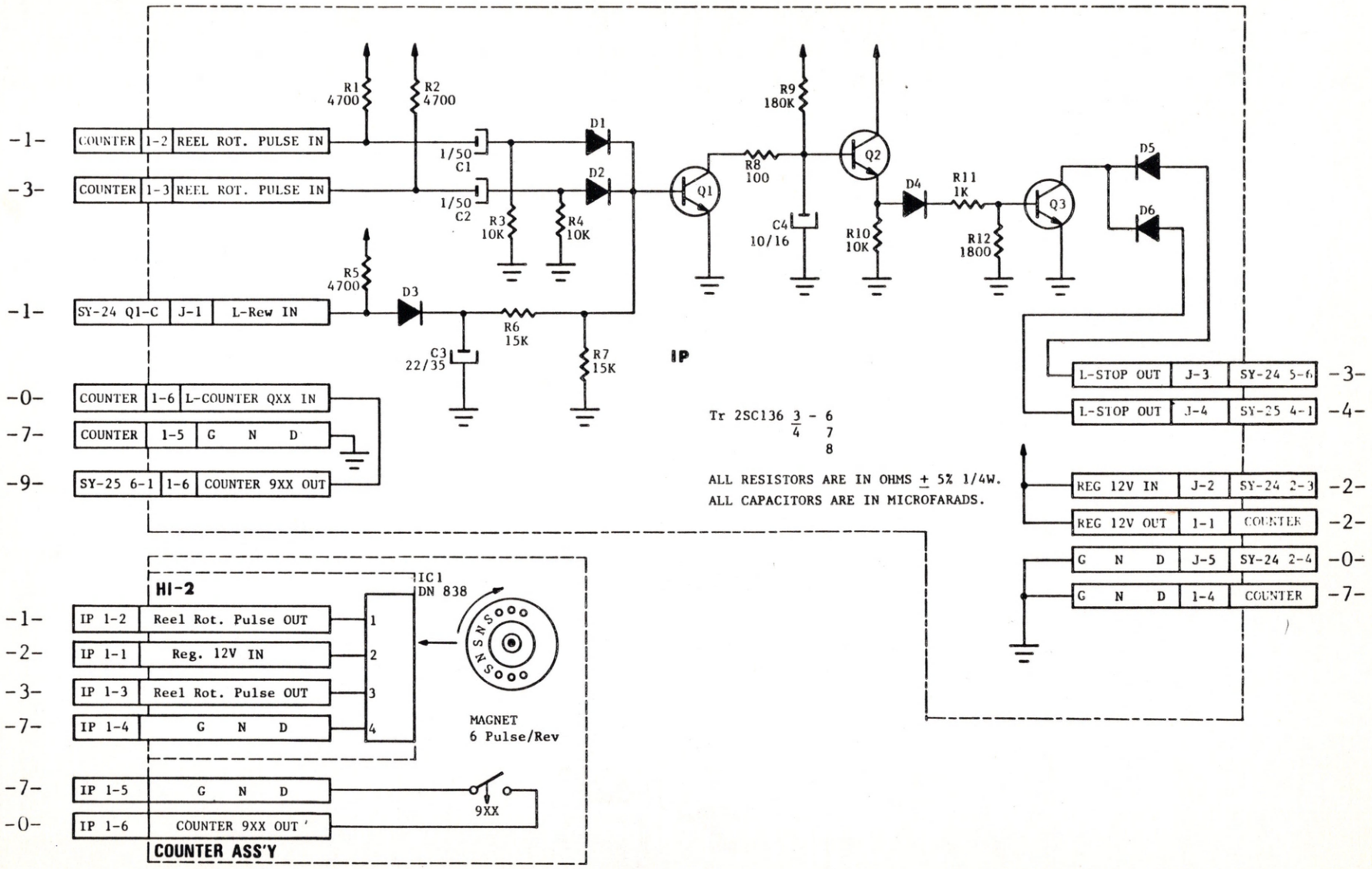
Connection between lead wire and SY-25 board



Connection between lead wire and SY-24 board






-1- COUNTER 1-2 REEL ROT. PULSE IN
-3- COUNTER 1-3 REEL ROT. PULSE IN
-1- SY-24 Q1-C J-1 L-Rew IN
-0- COUNTER 1-6 L-COUNTER QXX IN
-7- COUNTER 1-5 G N D
-9- SY-25 6-1 1-6 COUNTER 9XX OUT
R1 4700
R2 4700
1/50 C1
1/50 C2
R3 10K
R4 10K
R5 4700
D1
D2
D3
R6 15K
C3 22/35
R7 15K
IP
R8 100
R9 180K
C4 10/16
R10 10K
Q1
Q2
Q3
D4
R11 1K
R12 1800
D5
D6
L-STOP OUT J-3 SY-24 5-6 -3-
L-STOP OUT J-4 SY-25 4-1 -4-
REG 12V IN J-2 SY-24 2-3 -2-
REG 12V OUT 1-1 COUNTER -2-
G N D J-5 SY-24 2-4 -0-
G N D 1-4 COUNTER -7-
Tr 2SC136 3/4 - 6 7 8
ALL RESISTORS ARE IN OHMS ± 5% 1/4W.
ALL CAPACITORS ARE IN MICROFARADS.
HI-2
IC1 DN 838
-1- IP 1-2 Reel Rot. Pulse OUT 1
-2- IP 1-1 Reg. 12V IN 2
-3- IP 1-3 Reel Rot. Pulse OUT 3
-7- IP 1-4 G N D 4
SENSOR
MAGNET
6 Pulse/Rev
-7- IP 1-5 G N D
-0- IP 1-6 COUNTER 9XX OUT
9XX
COUNTER ASS'Y

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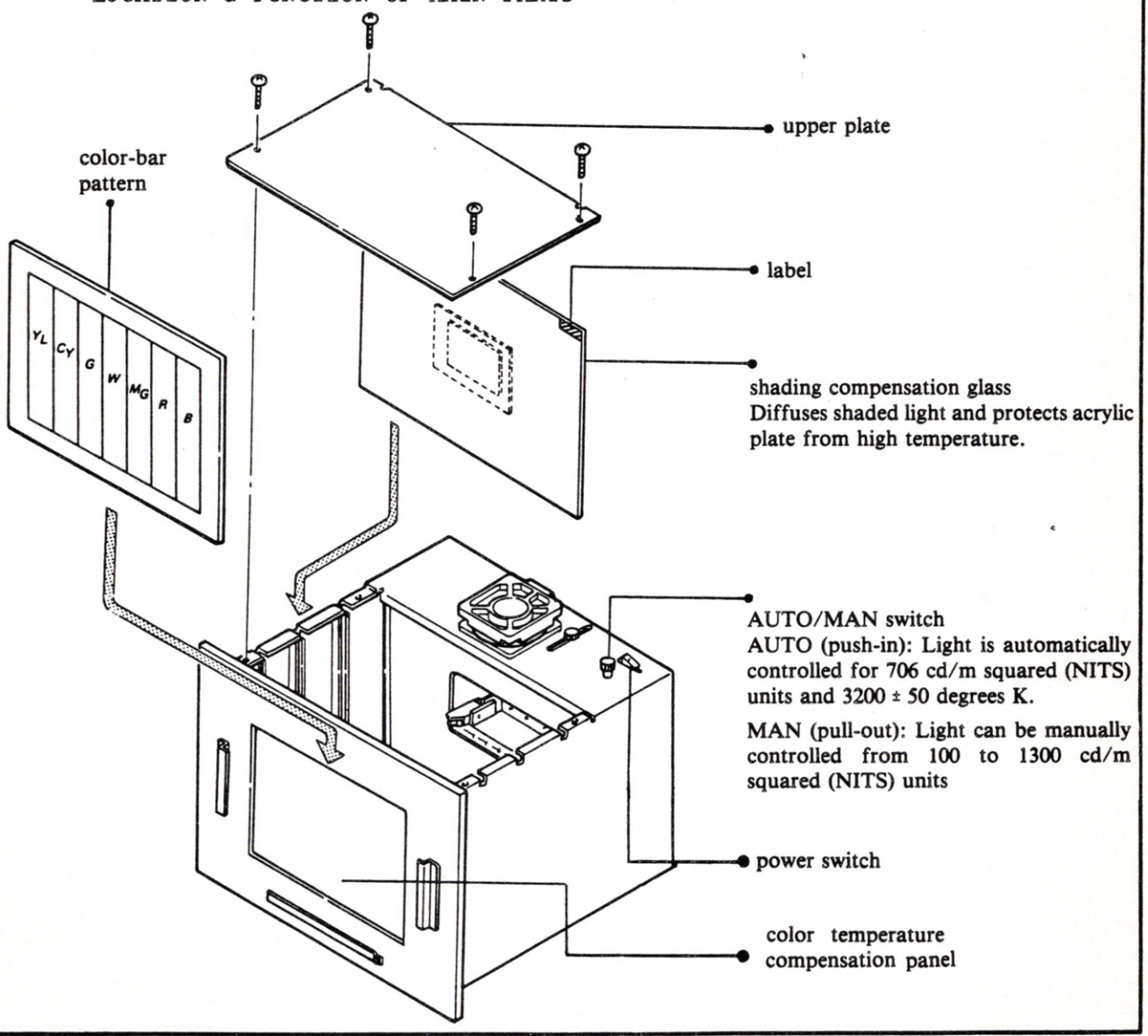
Date: June 1980 **No.** 41

Model: ALL CAMERAS

Subject: PATTERN BOX PTB-100

The PTB-100 pattern box provides a standard light source to be used for color and B/W camera adjustment. Compensation of light illumination and color temperature is made by internal automatic controls and is referenced against sophisticated, high quality measuring equipment. Only the PTB-100 pattern box (P.N. J-602-049-0A) is now available from our parts center. The former part (P.N. J-602-001-0A) will no longer be supplied.

LOCATION & FUNCTION OF MAIN PARTS



Ref: VTRW 78-169

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Date: June 1980 **No.** 42

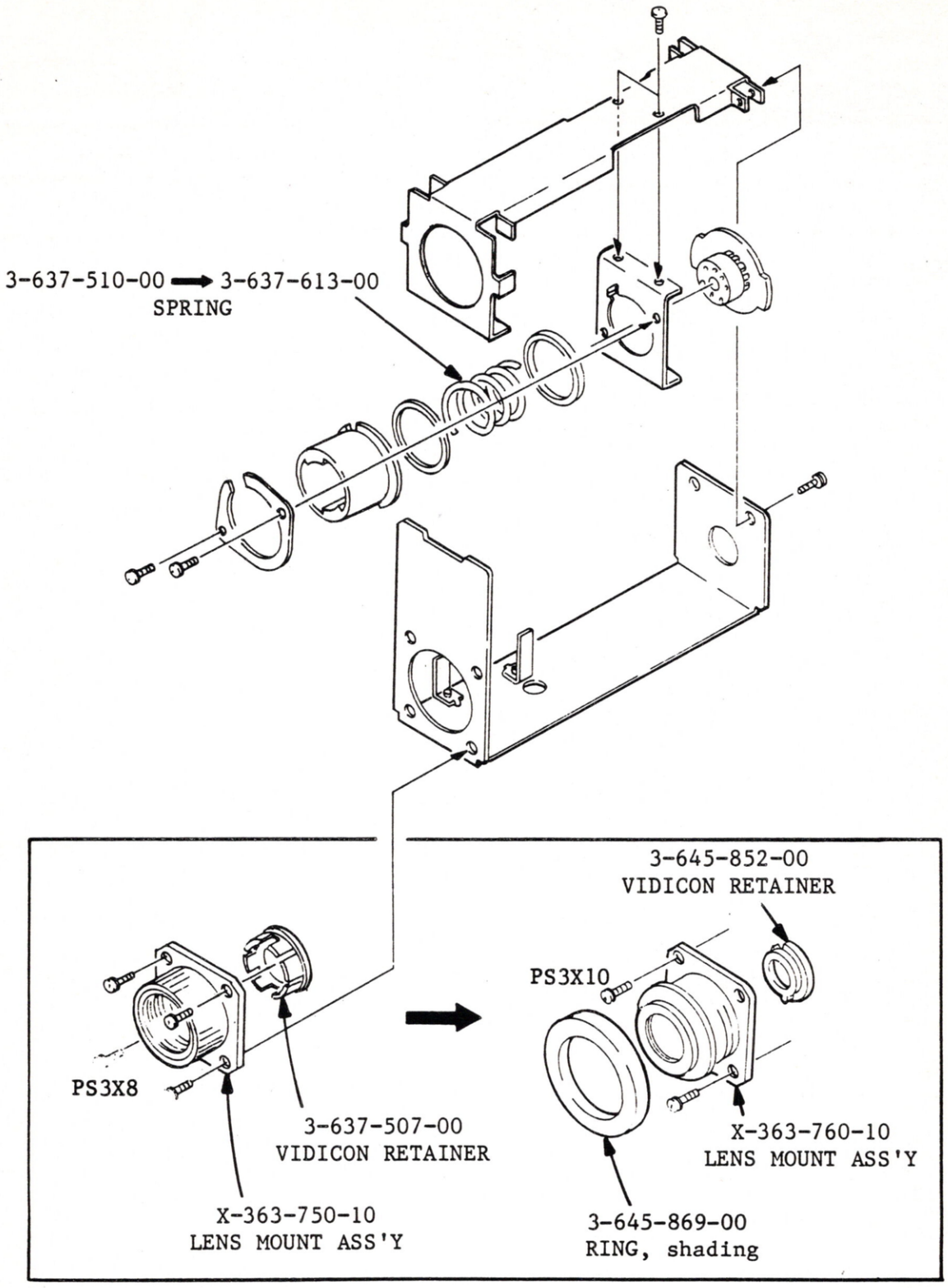
Model: AVC-1400, -1420, -1420CE

Subject: CHANGE OF "LENS MOUNT ASS'Y", "VIDICON RETAINER" AND THE "SPRING"

The "LENS MOUNT ASS'Y", "VIDICON RETAINER" and the "SPRING" have been changed beginning with the following serial numbers. The new and the old parts are not interchangeable. Therefore when ordering parts, check the serial number of each unit.

AVC-1400 (A) (U/C)	23,501 and higher
AVC-1420 (U/C)	21,801 and higher
AVC-1420CE (U/C)	10,301 and higher

Ref: VTRW 80-22


3-637-510-00 ➡ 3-637-613-00
SPRING
3-645-852-00
VIDICON RETAINER
PS3X10
PS3X8
3-637-507-00
VIDICON RETAINER
X-363-760-10
LENS MOUNT ASS'Y
X-363-750-10
LENS MOUNT ASS'Y
3-645-869-00
RING, shading

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Date: June 1980 **No.**43

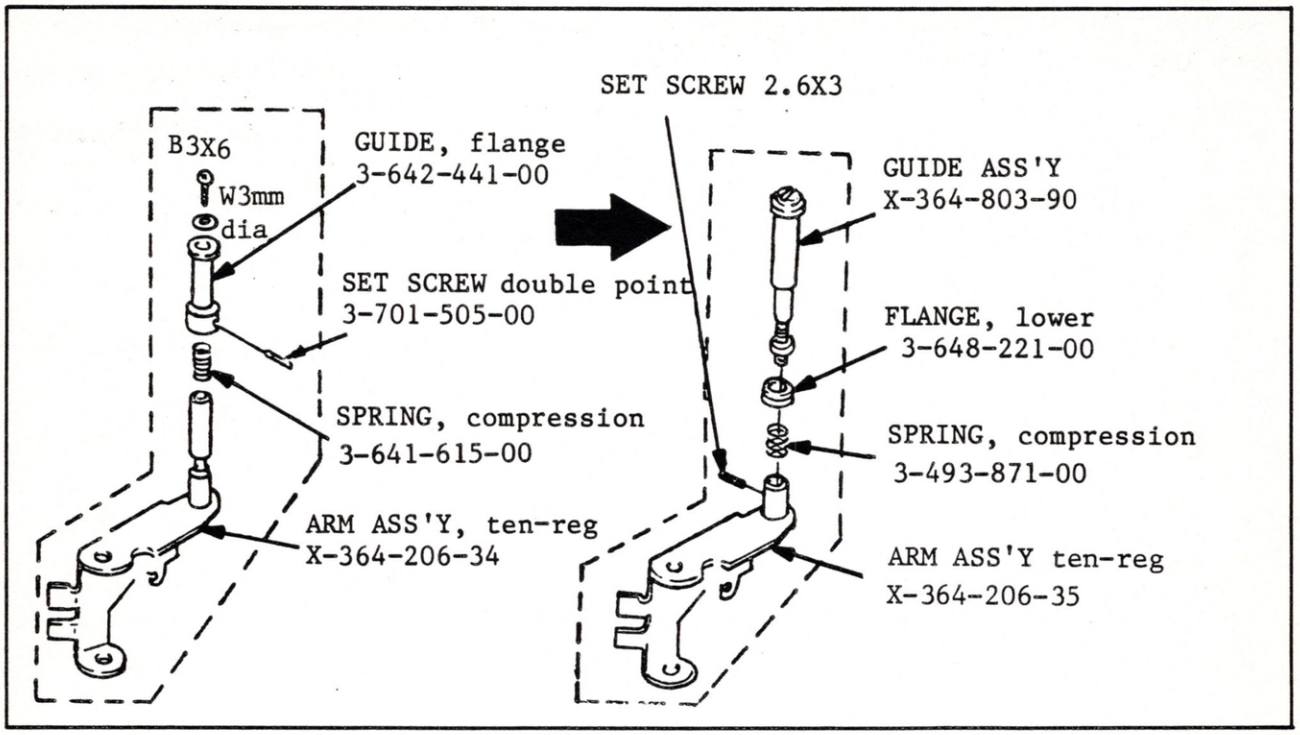
Model: U-MATIC 2000 SERIES
LVO-7000, TVO-9000

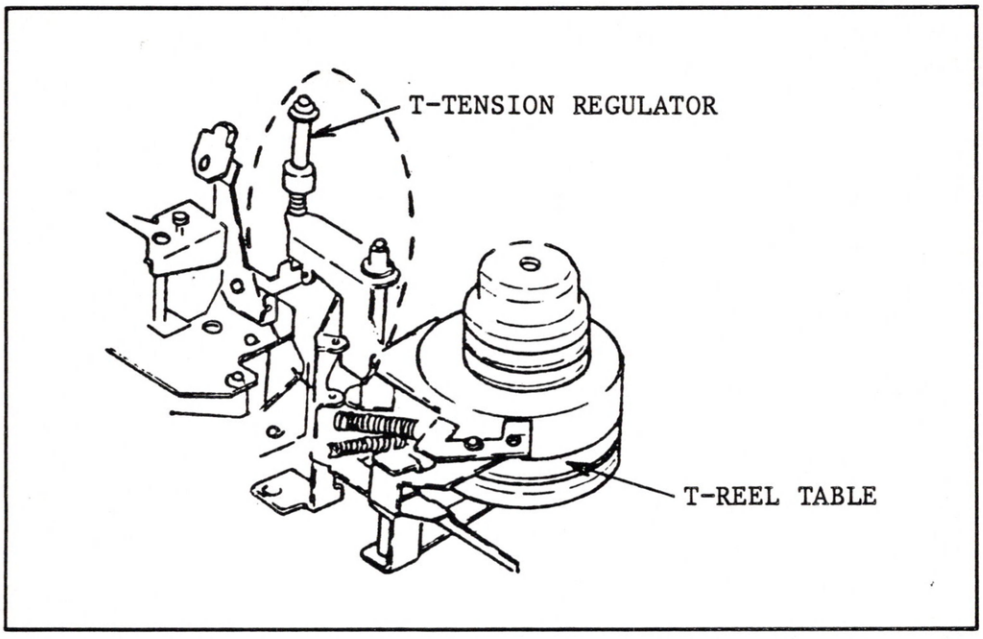
Subject: CHANGE OF T-TENSION REGULATOR

The T-TENSION REGULATOR has been changed beginning with the following serial numbers. The new and the old parts are not interchangeable. Therefore, check the serial number of each unit when ordering.

VO-2860	(USA)	15,241 and higher
VO-2860	(CND)	20,701 "
VO-2860A	(CND)	20,101 "
VO-2860A	(USA)	11,501 "
VO-2800	(USA)	16,251 "
VO-2800	(CND)	20,651 "
VO-2610	(USA)	21,821 "
VO-2610	(CND)	11,601 "
VO-2611	(USA)	10,301 "
VO-2611	(CND)	20,101 "
VO-2630	(E)	41,201 "
VP-2260	(USA)	11,781 "
VP-2260	(CND)	10,251 "
VP-2010	(USA)	19,731 "
VP-2011	(USA)	12,001 "
VP-2011	(CND)	20,151 "
VP-2010	(CND)	11,351 "
LVO-7000	(USA)	10,391 "
LVO-7000	(CND)	10,031 "
TVO-9000	(USA)	10,097 "
TVO-9000	(CND)	20,076 "

Ref: VTRW 80-28


B3X6
W3mm
dia
GUIDE, flange
3-642-441-00
SET SCREW double point
3-701-505-00
SPRING, compression
3-641-615-00
ARM ASS'Y, ten-reg
X-364-206-34
SET SCREW 2.6X3
GUIDE ASS'Y
X-364-803-90
FLANGE, lower
3-648-221-00
SPRING, compression
3-493-871-00
ARM ASS'Y ten-reg
X-364-206-35


T-TENSION REGULATOR
T-REEL TABLE

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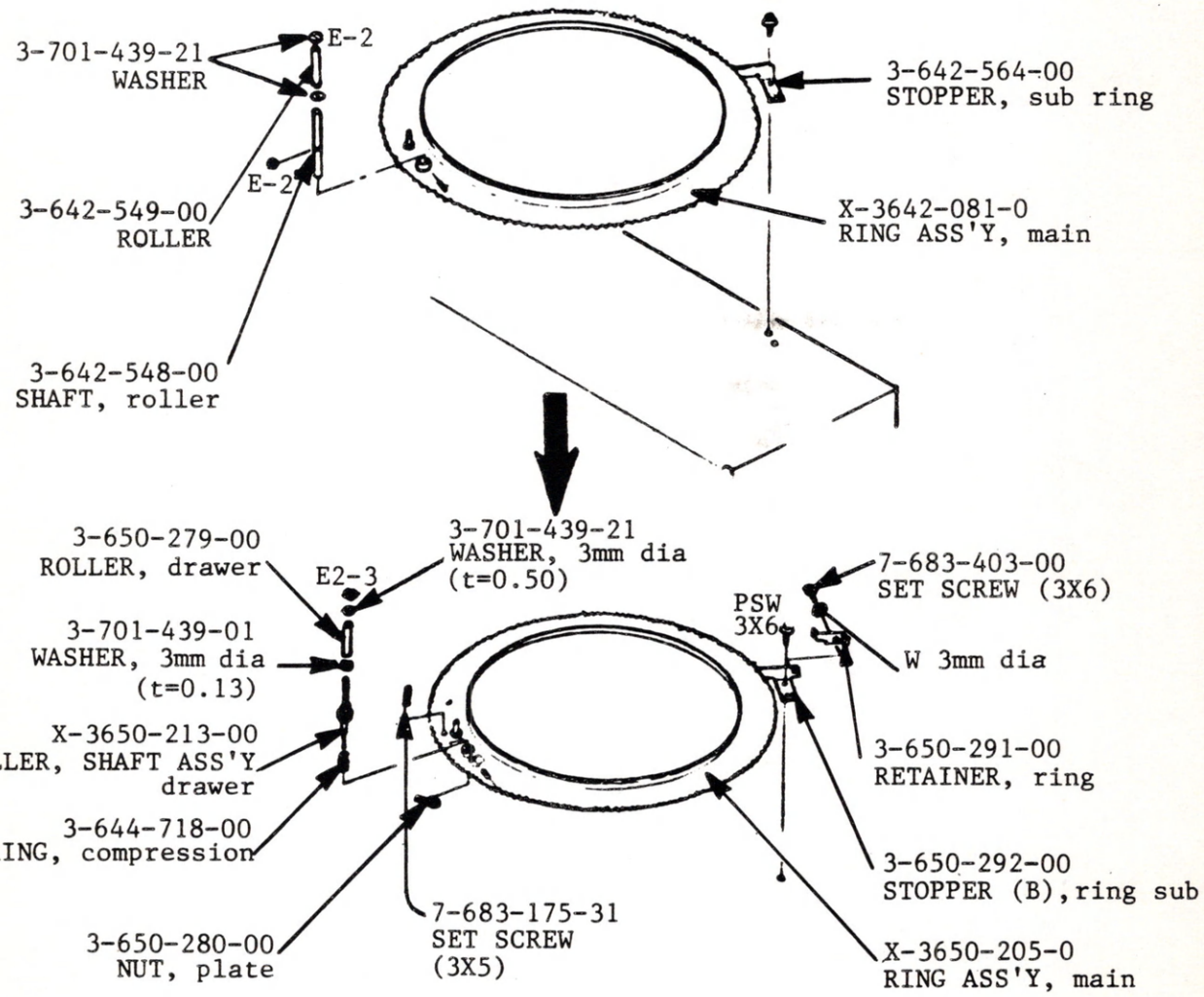
Date: June 1980 **No.** 44

Model: TVO-9000

Subject: CHANGE OF "ROLLER, DRAWER", "RING ASS'Y, MAIN" AND "STOPPER (8), SUB RING"

The "ROLLER, drawer", "RING ASS'Y, main" and "STOPPER (B), sub ring" have been changed beginning with the following serial numbers. The new and the old parts are not interchangeable.

TVO-9000 (USA) 10,0097 and higher
TVO-9000 (CND) 20,076 and higher



Ref: VTRW 80-29

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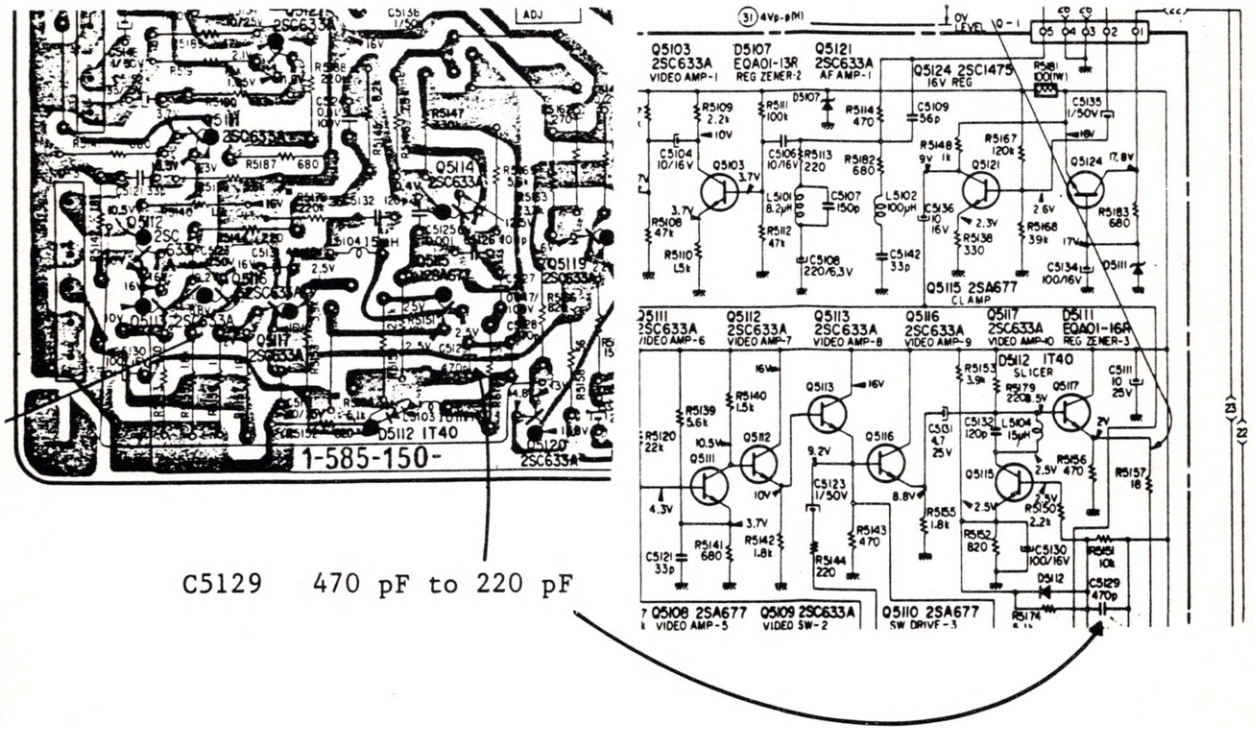
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Date: June 1980 **No.** 45

Model: CVM-1250

Subject: CLAMP PULSE IN DC RESTORATION

Picture flicker in moving scenes may occur in some units due to DC restoration error. The delay time of the clamp pulse at the base of Q5115 is critical to proper DC restoration. To correct picture flicker due to excessive width of the clamp pulse, change C5129 from 470 to 220 pF. This change will reduce the delay time by about 2 microseconds.



MONITOR

Ref: ATT-005

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Date: June 1980 **No.** 46

Model: VO-2610

Subject: SY-47 BOARD PART NUMBER

When replacing the SY-47 board in the VO-2610, note that there is a slight difference in circuit boards beginning with serial numbers 15,321. The part number A-671-710-0B as listed in the service manual, applies to all units, but the part number A-671-710-0A can be used only in serial numbers below 15,321.

1. Serial numbers up to 15,320 only:

   Mounted Circuit Board (MCB) A-671-710-0A
   Printed Circuit Board (PCB) 1-587-586-11

2. Applicable to all serial numbers:

   Mounted Circuit Board (MCB) A-671-710-0B
   Printed Circuit Board (PCB) 1-600-508-11

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Date: June 1980 **No.** 47

Model: CMA-203

Subject: CAMERA INTERFACE

The CMA-203 camera adaptor can be used to interface B/W video cameras with J-type (10 pin) connectors to industrial VTRs (i.e. VO-4800) with Q-type (14 pin) connectors. The following table lists the various VTRs and their respective interface adaptors.

NOTES:

* The CMA-203 is not for use with Broadcast VTRs.
* Do not interconnect the CMA-203 with monitor cables such as the VMC-1M.
* Extension cables such as the CCJ-5, CCJ-10, etc. can be used with the CMA-203.

VTR & Camera Interface

	DXC-1640	DXC-1610	HVC-1000	AVC-3450	RSC-1010	RSC-1050
CMA-5	CCQJ-2	direct	CMA-201	xxx	direct	direct
CMA-6	CCQJ-2	direct	xxx	xxx	xxx	xxx
VO-4800	CCQ-XX	CCJQ-05	CMA-201+CCJQ-05 CMA-204	CMA-203	CMA-203 or CCJQ-05	CCJQ-05* or CMA-203
SLO-340	CCQJ-2	direct	CMA-201	direct	direct	direct
SL-3000	CCQJ-2+CMA-202 CMA-205	CMA-202	direct	xxx	CMA-202*	CMA-202

NOTES 1:
direct - No interface is needed.
xxx - Cannot be interfaced.
* - Playback cannot be monitored on DXF-2.

NOTES 2:
CCQJ-2 - Accessory supplied with DXC-1640.
CCJQ-05 - Accessory supplied with VO-4800.
CMA-201 - Available from SONY Video Products Co.
CMA-202 - Available from SONY Consumer Products Co.
CMA-203 - Now available.
CMA-204 - Available at a later date.
CMA-205 - Available at a later date.

ACCSSY

Ref: VPB 80-5

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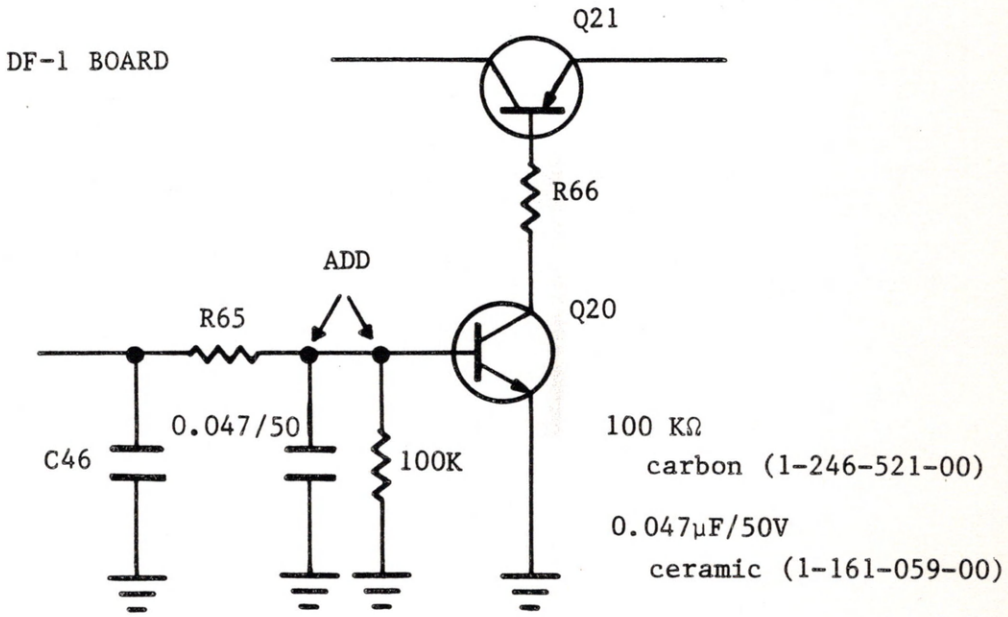
Date: June, 1980 **No.** 48

Model: DXC-1610

Subject: APPLICATION WITH VO-4800

When using the DXC-1610 with DC-5 (Battery Adaptor) and the VO-4800, misoperation of the VO-4800 may occur. In normal operation with a camera, the VO-4800 should remain in REC PAUSE when the REC and FWD buttons are pressed simultaneously. However, in some instances, the recorder will not remain in PAUSE but goes into normal REC MODE.

To rectify this situation, connect a 0.047 uF capacitor and a 100 Kohm resistor between the base and emitter junctions of Q20 on the DF-1 board.



Ref: VS-80-42

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Date: July 1980 **No.**49

Model: HVC-1000

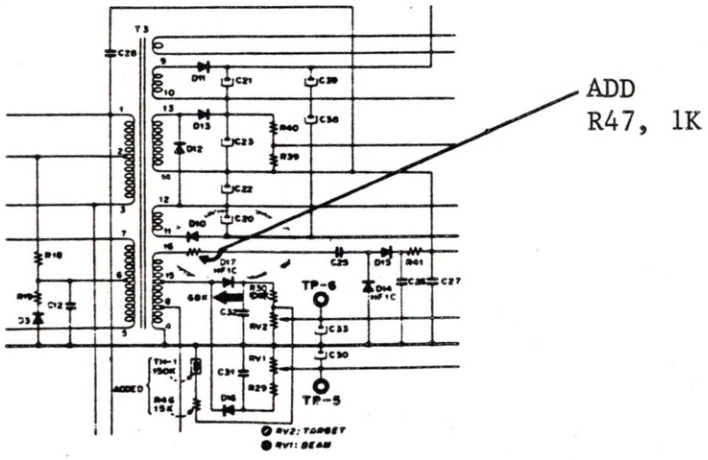
CAMERA

Subject: REDUCTION OF VERTICAL STRIPE NOISE

To reduce vertical stripe noise which appears on the left side of the monitor picture, the G2 voltage generator circuit for the trinicon tube can be modified as follows:

DF-7 Board

Add R47, 1K carbon



Ref: VTRW 80-56

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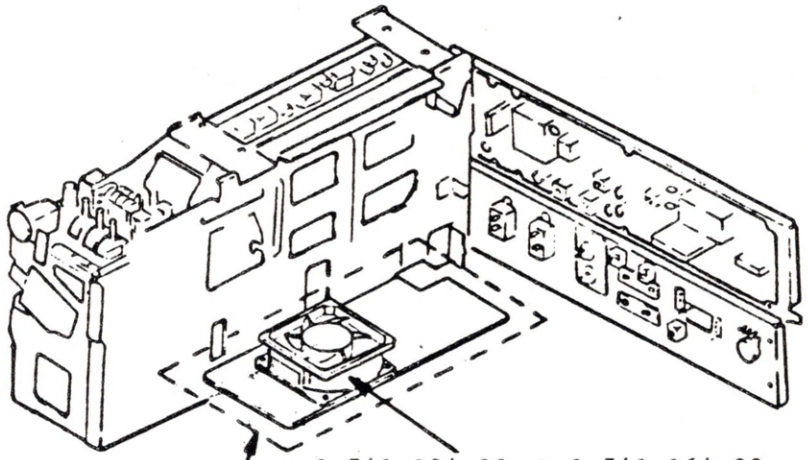
Date: July 1980 **No.** 50

Model: TVO-9000

Subject: CHANGE OF BLOWER AND FAN FRAME BLOCK ASS'Y

This modification has been incorporated on units with serial numbers 30,001 and higher.

An improved BLOWER has been incorporated into the current production run. Also, the Fan FRAME BLOCK ASS'Y has been changed to accomodate the new fan. New parts can be used on older machines, but the new and older parts are not directly interchangeable. The new part numbers are shown below.



Ref: VTRW 80-30

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VTR

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Date: July 1980 **No.** 51

Model: TVO-9000, VP-2260

Subject: CHANGE OF "CONNECTOR, AC IN"

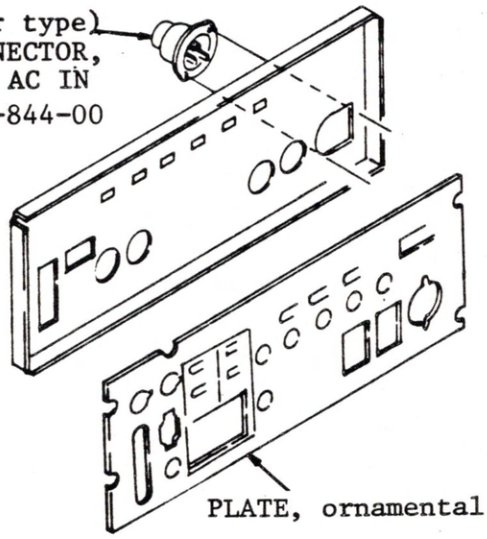
This modification has been incorporated in units with the following serial numbers:

TVO-9000 (USA).....10097 and higher
(CND).....20076 and higher
VP-2260 (USA).....11481 and higher
" " (CND).....10201 and higher

A new "CONNECTOR, AC IN" is used in current production. The new and former parts are not directly compatible.



(new type)
CONNECTOR, AC IN new 1-509-546-00



	VP-2260	TVO-9000
former	3-654-151-00	3-642-370-00
new	3-654-151-03	3-652-379-00

Ref: VTRW 80-31

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Date: July 1980 **No.** 52

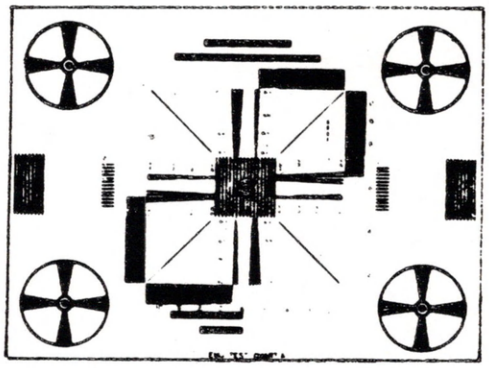
Model: PTB-100

Subject: NEW FIXTURES FOR COLOR TV CAMERA ALIGNMENT

New test patterns for the PTB-100/200 are now available. These new patterns and their respective part numbers, are detailed blow.

PART No.	DESCRIPTION
J-602-187-0A	Resolution Pattern
J-602-188-0A	Logarithmic Gray Scale Pattern
J-602-189-0A	Ball Chart Pattern
J-602-190-0A	Registration Pattern
J-602-191-0A	Inmega Cycle Pattern

Resolution Pattern

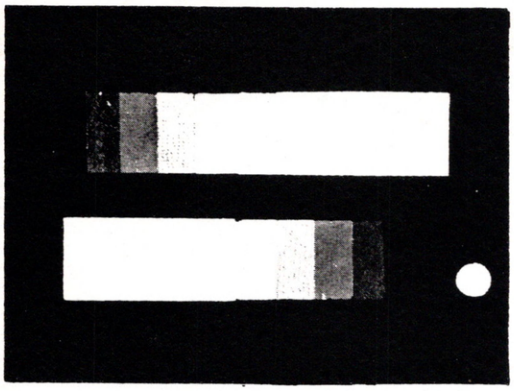


J-602-187-0A

(See next page.)

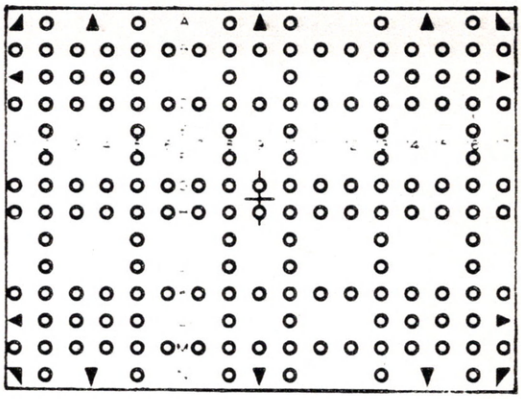
Ref: VTRW 80-62

Logarithmic Gray Scale Pattern



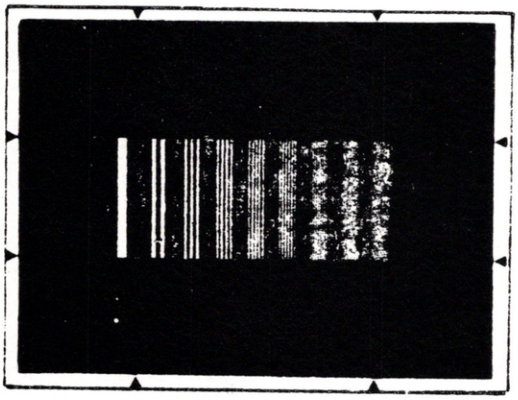
J-602-188-0A

Ball Chart Pattern



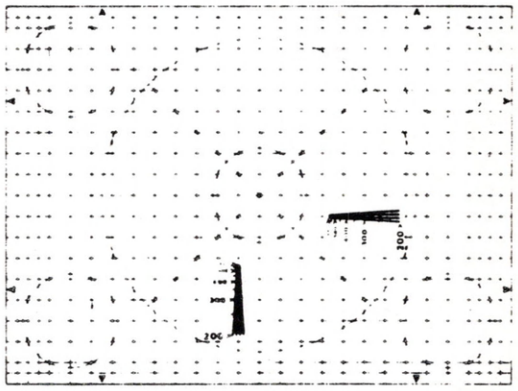
J-602-189-0A

Inmega Cycle Pattern



J-602-191-0A

Registration Pattern



J-602-190-0A

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Date: July 1980 **No.**53

Model: DXC-1210, 1610 AND 1640 SERIES

Subject: USE WITH THE VCR-2

This specification change affects all units.

The diameter of the lens filter used with the cameras listed above, has been changed from 49mmto 58mm, due to a change in the lens standard. Because of this change, in the VCR-2 (in VCR-2 units with serial numbers 10,651 and higher), include a new type of ND filter and close up lens.

If the former type VCR-2 (units with serial numbers below 10,651) is used with the cameras listed above, please order the new type of ND filter and close up lens.

	former	new
ND filter	2-225-601-00	2-227-980-00
Close up lens	2-227-902-00	2-227-981-00

Ref: VTRW 80-18

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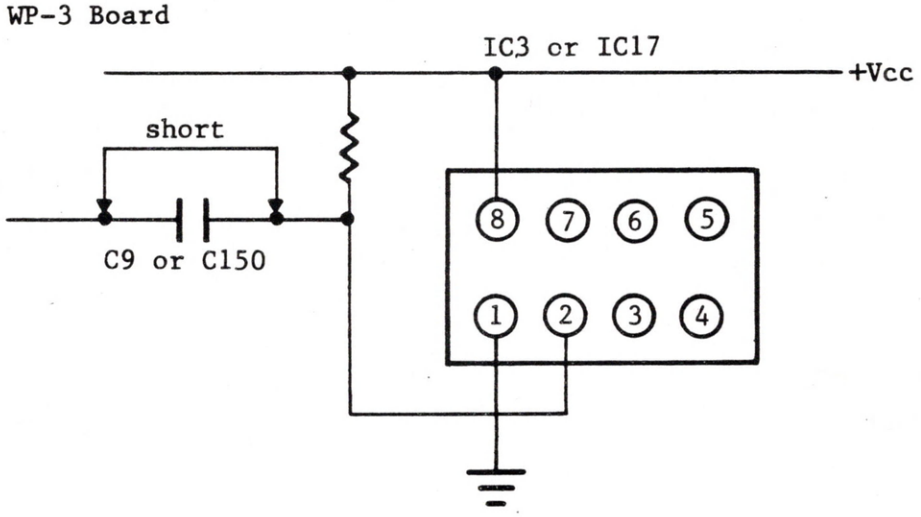
Date: July 1980 **No.** 54

Model: SEG-1210

Subject: IMPROVEMENT OF WIPE PICTURE

This modification has been implemented in units with serial numbers 10,401 and higher.

At low temperature, IC3 (or IC17) of the WP-3 board, may fail to be triggered, causing the wiped picture to be deformed. To ensure proper operation of WIPE, short both capacitors C9 (connected to IC3, pin 2) and C150 (connected to IC17, pin 12) on the WP-3 board.



PERIPHERAL

Ref: VTRW 80-65

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Date: July 1980 **No.** 55

Model: SLP-100; SLO-260

Subject: PAUSE MECHANISM AND SYSTEM CONTROL CIRCUIT CHANGE

Effective serial numbers:

MODEL:	US VERSION	CAN VERSION
SLP-100	14,601 and higher	10,501 and higher
SLO-260	13,101 "	10,501 "

To operate the PAUSE mechanism in earlier versions of SLP-100 and SLO-260, the PAUSE lever had to be pulled continually towards you, to set up the PAUSE mode.

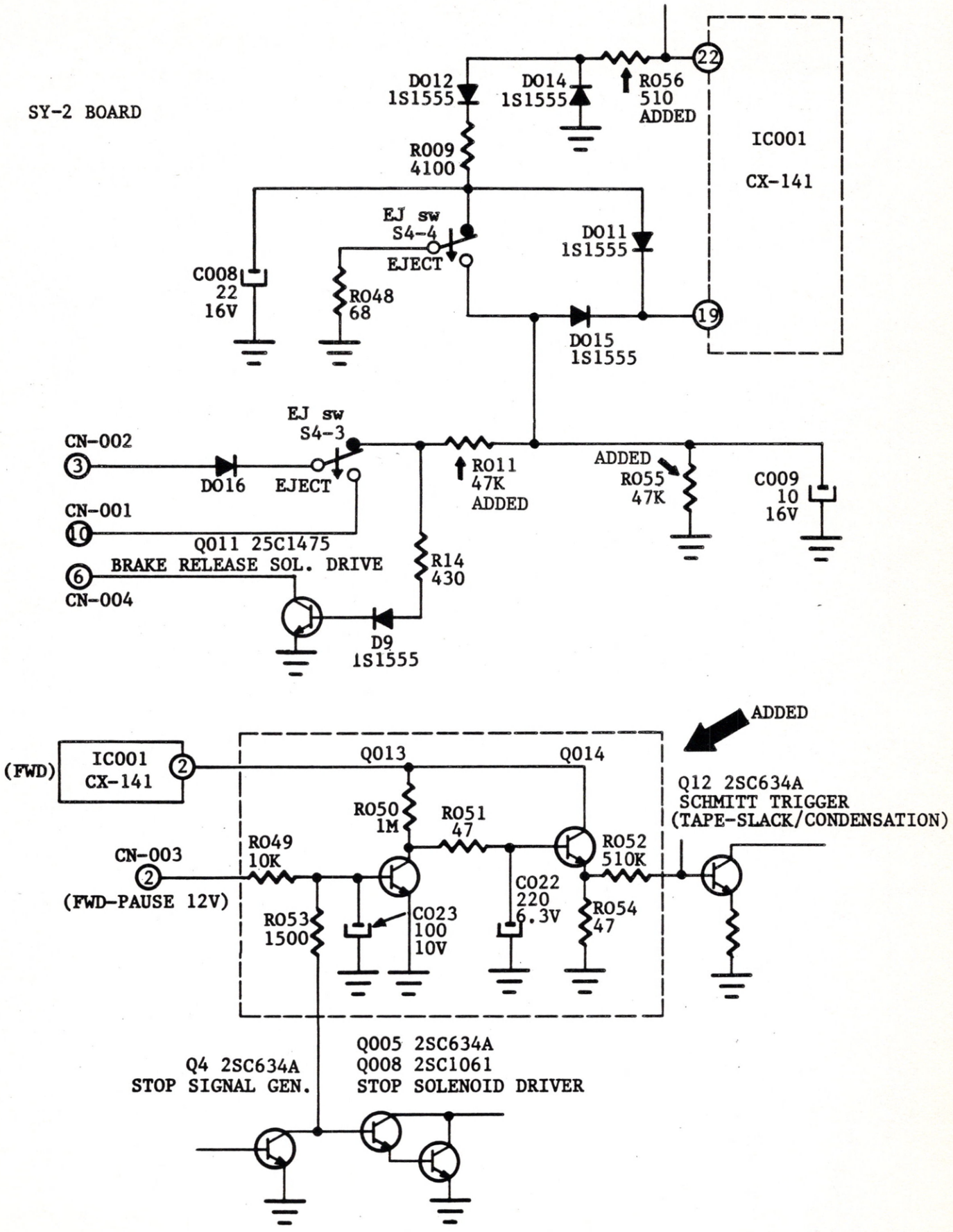
In the units listed above, the PAUSE mechanism has been changed to a locking type. The system control has also been modified to release PAUSE after about three minutes, to prevent head clogging. The SY board has been updated to reflect these changes, and designated the SY-2 board. (See schematics below.)

Part Changes:

PART NAME	BEFORE CHANGE	AFTER CHANGE
LEVER, compression (M)	3-652-018-00	3-646-272-04
Sound-proof rubber	3-652-017-00	deleted
SY-mount	A-671-706-0A	A-671-706-5A

Ref: VTRW 77-89

Changes made to SY board; afterwards called SY-2 board



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Date: July 1980 **No.** 56

Model: DXC-1640

CAMERA

Subject: NOISE IN RF-OUT OF VO-4800 USED WITH DXC-1640

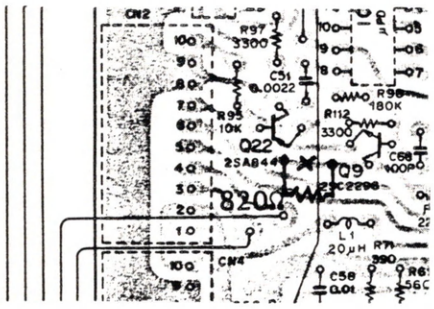
When a tape is played back on the VO-4800 with the DXC-1640 still connected, a dotted band of noise (appearing like a seam) moving from left to right, may occasionally be noticed on the monitor.

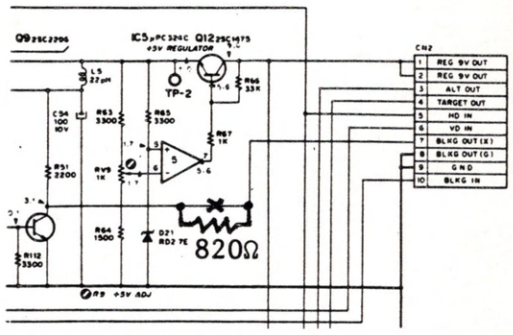
If this situation is observed, perform the following modification to the DF-9 board on the DXC-1640.

1. Cut the foil pattern (foil side) between CN2 pin 7 and the Q9 collector.
2. Add an 820 ohm resistor as shown below.

   820 ohm, carbon 1/4W, P/N 1-246-471-00

DF-9 BOARD





X pattern cut

Ref: VS 80-49

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Date: July 1980 **No.** 57

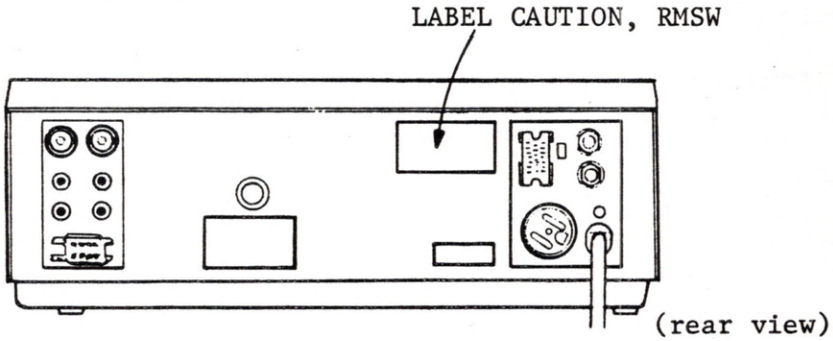
Model: SLO-320

Subject: ADDITION OF "CAUTION, LABEL, RMSW"

This change affects units with serial numbers:
USA model 10001 and later
CND model 20001 and later

When operating a machine by remote control, it is necessary to select the REMOTE position of the local/remote switch, on the connector panel. A caution label for REMOTE switch is added to the machine.

3-660-868-00
LABEL, CAUTION, RMSW



Ref: VTRW 80-52

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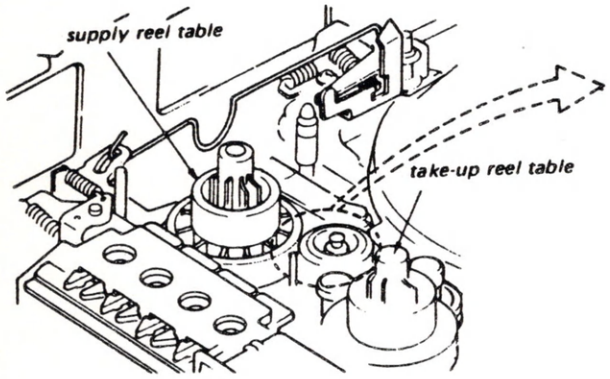
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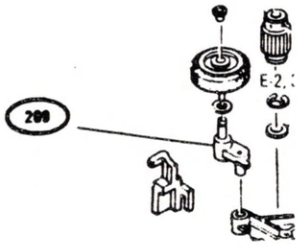
Date: July 1980 **No.** 58

Model: SLO-323

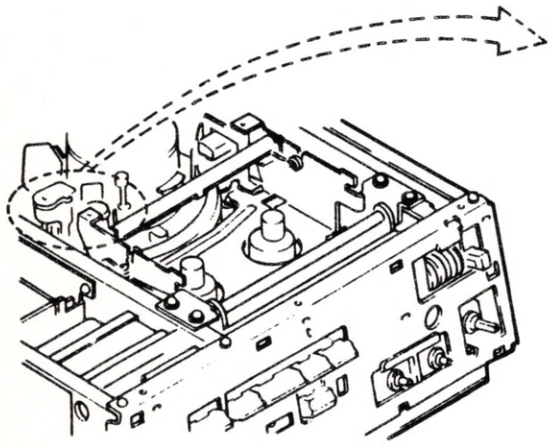
Subject: CHANGE PLATE ASS'Y AND CAPSTAN STOPPER PART NUMBERS

The part numbers of the PLATE ASS'Y, CENTER ADJUSTMENT and the STOPPER, CAPSTAN, UPPER, for the SLO-323 have been changed as follows.

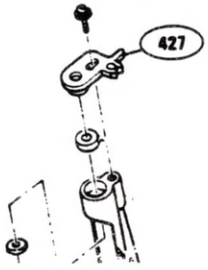




	OLD		NEW	
209	X-365-331-40	→	X-365-472-40	PLATE ASS'Y CENTER ADJUSTMENT



PTTWH3X8



427	3-653-483-00	→	3-660-808-00	STOPPER, CAPSTAN, UPPER

Ref: VTRW 80-51

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VTR

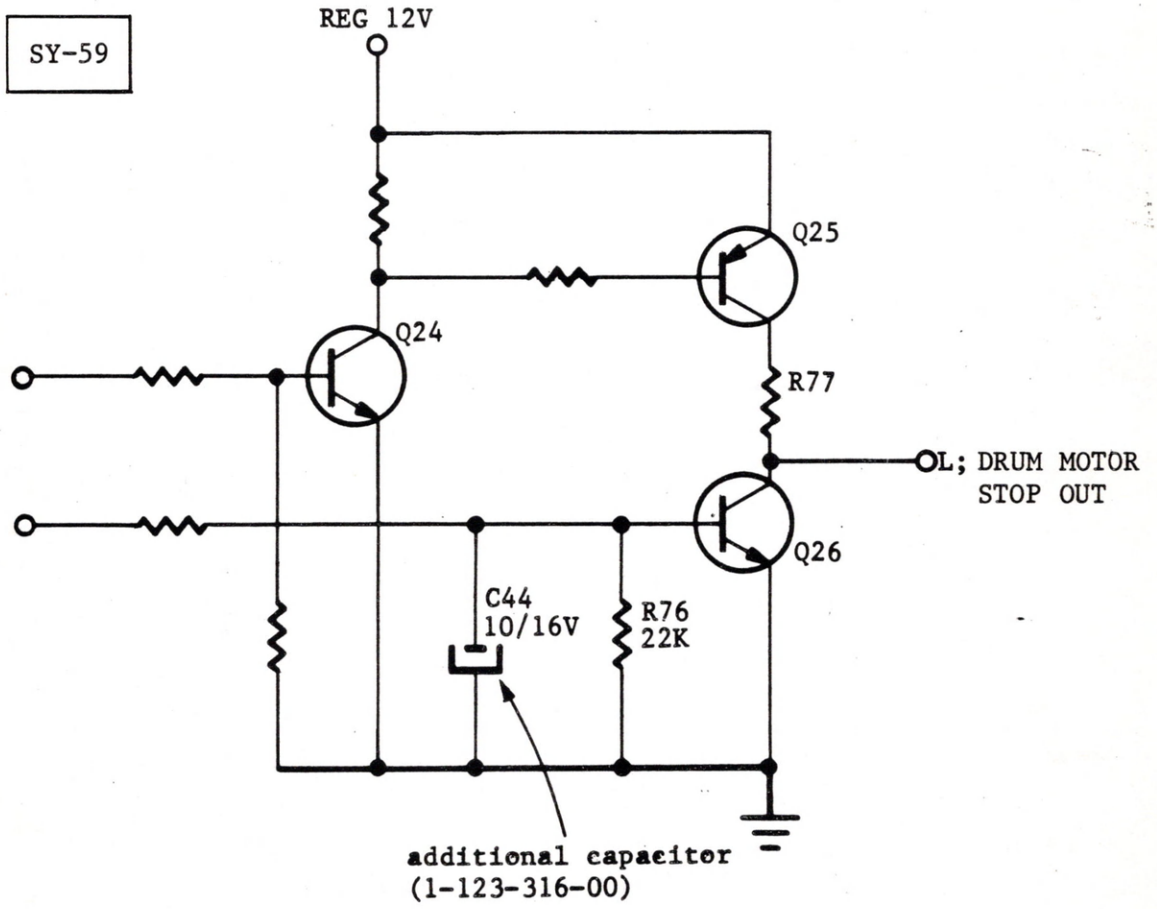
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Date: July 1980 **No.** 59

Model: SLP-303, SLO-323

Subject: DRUM MOTOR STOP DRIVING CIRCUIT

Transistors Q1 and Q2 of the stator assembly may breakdown because of too high of a tension voltage, supplied from the DRUM MOT STOP OUT driving circuit. This breakdown will cause the drum rotation to slow down or even stop. To maintain the DRUM MOTOR STOP OUT signal within acceptable limits, add capacitor C44, 10/16V (P.N. 1-123-316-00), on the SY-59 Board.



(Mount the + side of the capacitor to the base of Q26.)

Ref: VTRW 89-40

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Date: August 1980 **No.** 60

Model: HVC-1000

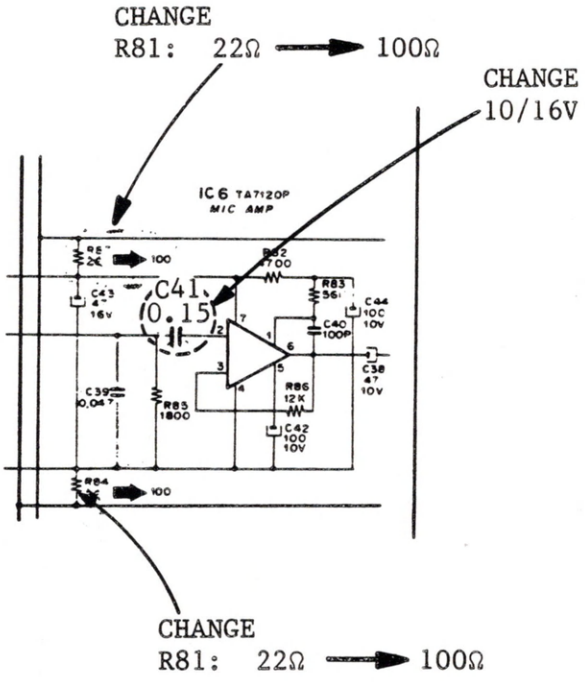
CAMERA

Subject: AUDIO NOISE REDUCTION

This modification can be applied to units with serial numbers 17,500 and below. It has already been incorporated in units with serial numbers 17,501 and higher.

The MIC AMP, IC 6 on the PR-16 board can be changed to reduce audio noise. This improvement is most evident when long camera cables are used; in particular, audio buzz generated by the extended cable lengths, will be noticeably decreased.

Apply this modification if audio noise reduction is desired.



Ref: VTRW 80-57

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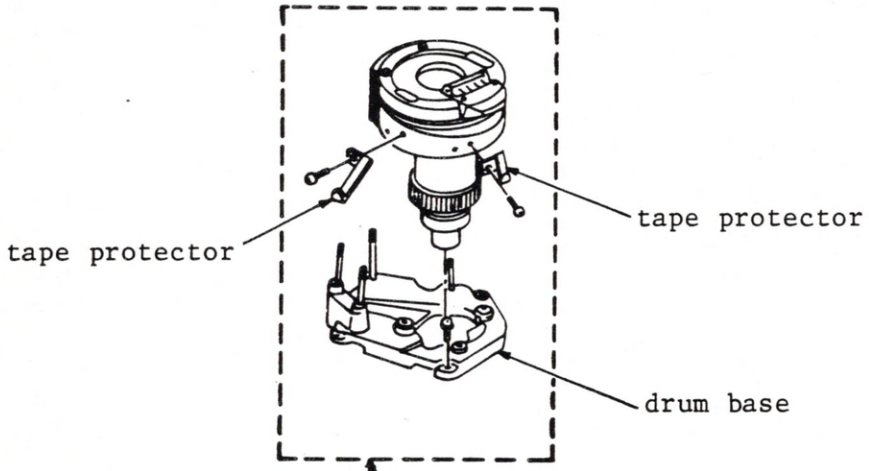
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Date: August 1980 **No.** 61

Model: SLP-100, SLO-260, DPR-500

Subject: CHANGE OF DRUM ASSEMBLY

The Drum Base and Tape Protectors are no longer supplied with the DRUM ASSEMBLY. When replacing the DRUM ASS'Y, please use the Drum Base and Tape Protector from the old part.



DRUM ASS'Y	
DPR-500	A-670-928-5A (DSU-09B) → A-605-010-0A (DSH-09B)
SLP-100 SLO-260	A-670-929-8A (DSU-09A) → A-605-009-0A (DSH-09A)

Ref: VTRW 80-81

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Date:

No.62

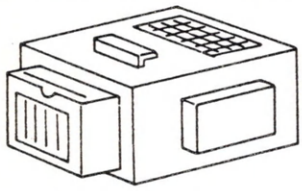
Model: TRINICON CAMERAS

Subject: VECTORSCOPE OVERLAY SCALES

A vectorscope overlay scale had been supplied with the DXC-1640 service manual. As of May 1980, the overlay will not be included in the service manual.

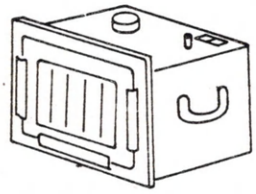
Vectorscope overlays for color camera alignment have been divided by tube size (into overlays for 1-inch or 2/3 inch trinicon pick-up tubes) and by type of pattern box used (P.N. 8-984-602-00 or P.N. J-602-049-0A).

USE WITH OLD PATTERN BOX



(8-984-602-00)

USE WITH PTB PATTERN BOX



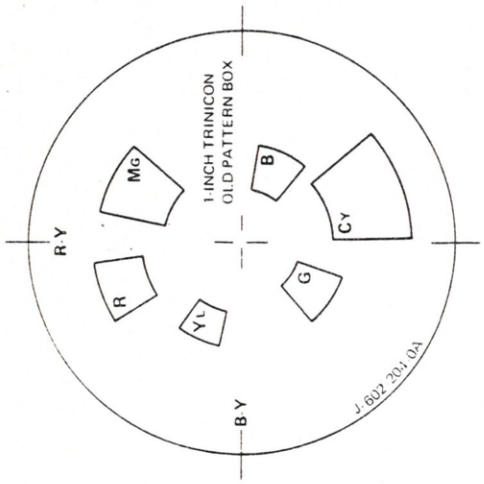
(J-602-049-0A)

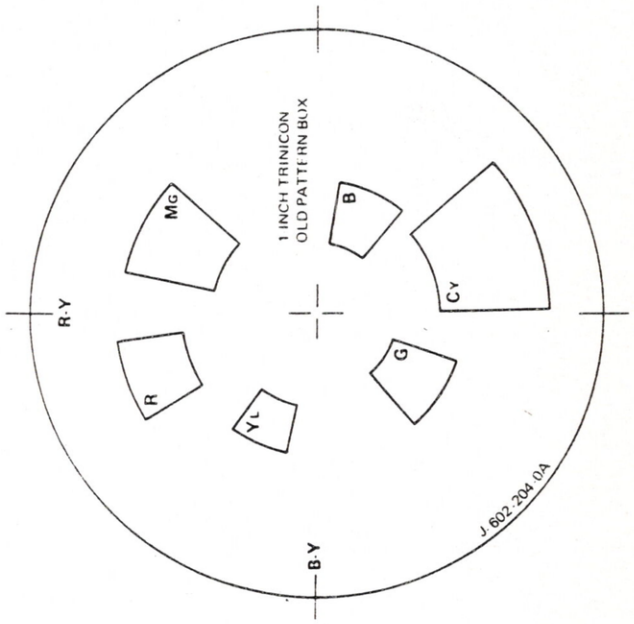
PART NUMBER	DESCRIPTION
J-602-204-0A	SONY SPECIFIED VECTORSCOPE OVERLAY (1-INCH TRINICON TUBE)
J-602-205-0A	SONY SPECIFIED VECTORSCOPE OVERLAY (2/3-IN TRINICON TUBE)
J-602-206-0A	SONY SPECIFIED VECTORSCOPE OVERLAY (1-INCH TRINICON TUBE)
J-602-207-0A	SONY SPECIFIED VECTORSCOPE OVERLAY (2/3-IN TRINICON TUBE)

NOTE: 1-INCH TRINICON CAMERAS - DXC-1000, -1200, -1210, -1600, -1610, -1650;

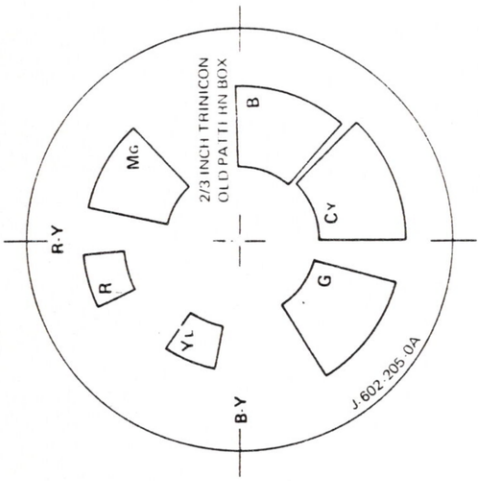
2/3-INCH TRINICON CAMERAS - DXC-1640, -1800, HVC-1000.

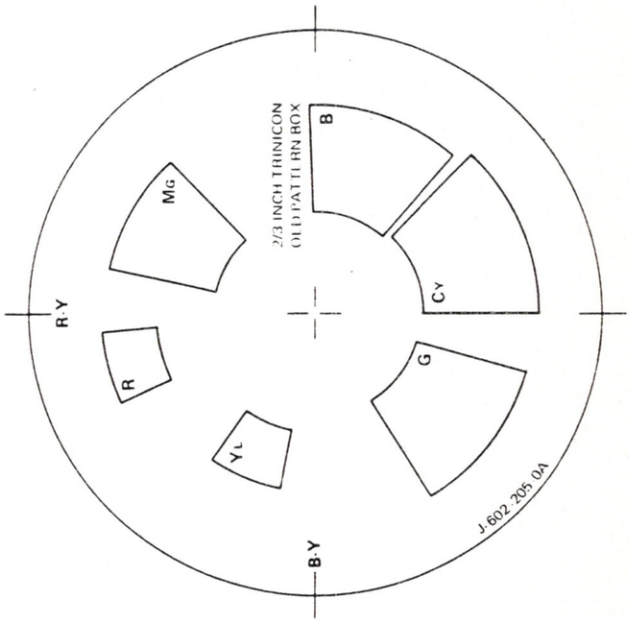
Ref: VTRW 80-77



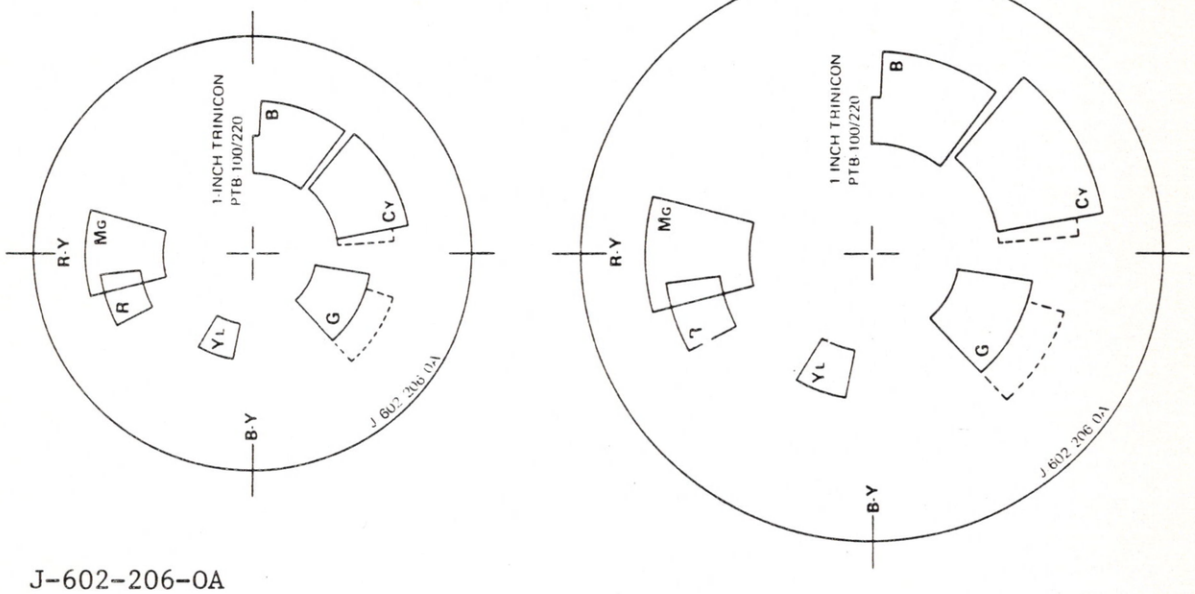


J-602-204-0A
1-INCH TRINICON

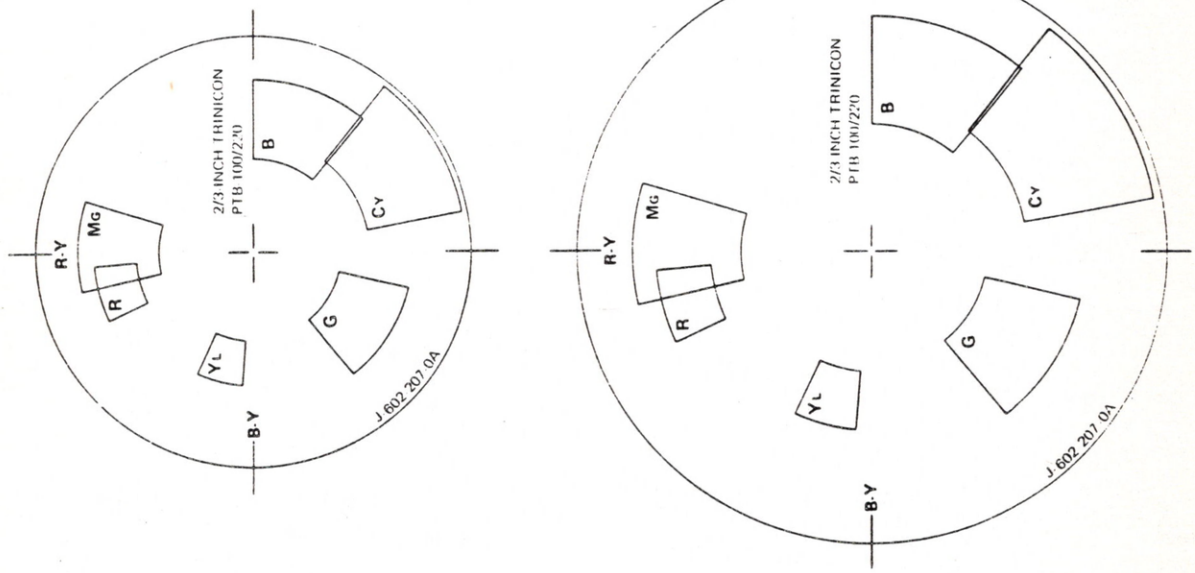




J-602-205-A
2/3-INCH TRINICON



J-602-206-0A
1-INCH TRINICON



J-602-207-0A
2/3-INCH TRINICON

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Date: August 1980 **No.** 63

Model: RX-303, RX-353

Subject: INSTRUCTION MANUAL REVISION

Units with the following serial numbers are affected:

RX-353 (U/C) 20,001 and later
RX-303 (U/C) 20,001 and later

More detailed information has been added to the Instruction Manual descriptions, to allow for easier use.

RX-353	3-770-923-24	MANUAL INSTRUCTION
RX-303	3-770-957-23	MANUAL INSTRUCTION

Please send order to:

Sony Video Products Company
Technical Publications Department
700 West Artesia Blvd.
Compton, CA 90220

PERIPHERAL

Ref: VTRW 80-64

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Date: September 1980 **No.** 64

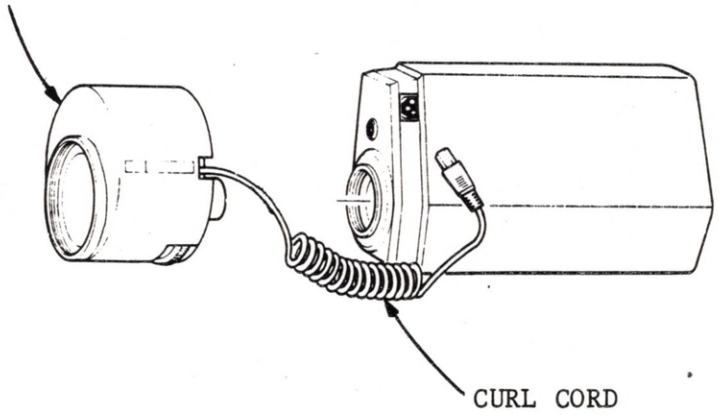
Model: AVC-1450, -1450CE

Subject: LENS CORD INFORMATION

It is possible to order only the lens cord. Please use the following part number when ordering.

Part No.	Description
1-555-516-00	CURL CORD

EE AUTO IRIS TELEVISION LENS
FOR SONY AVC-1450 CAMERA



Ref: VTRW 80-75

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Date: September 1980 **No.** 65

Model: DXC-1640

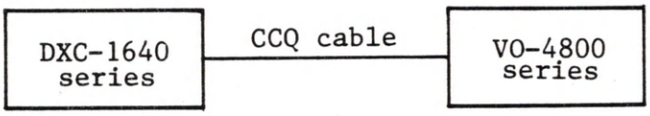
CAMERA

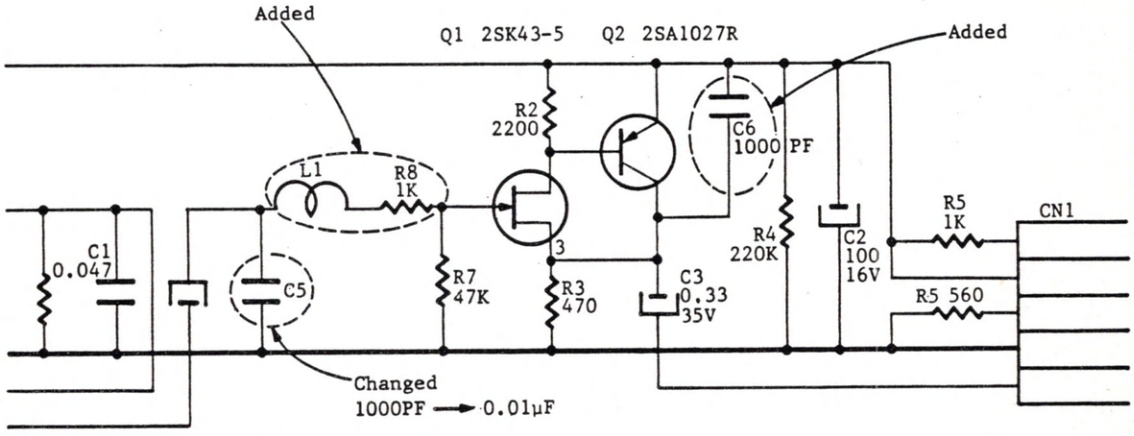
Subject: AUDIO RF INTERFERENCE IN STRONG ELECTRICAL FIELDS

This modification can be applied to units with serial numbers below 11,451; units with serial numbers 11,451 and higher have been modified prior to shipment.

In the vicinity of high electrical fields, the CCQ cable may not be able to shield the audio signal from RF interference. This interference appears as a strong audio hum, which is detected and amplified by the MIC AMP. The addition of a Low Pass filter to the circuit will compensate for this problem.

(The CCQ cable is used to connect the VO-4800 and the DXC-1640.)





ADDITIONAL AND MODIFIED PARTS

C5:	changed from	1000 pF	to 0.01 uF	(1-161-202-00)
C6:	added	1000 pF		(1-102-074-00)
L1:	added	8 uH		(1-407-519-00)
R8:	added	1 kohm		(1-246-473-00)

Ref: VTRW 80-58

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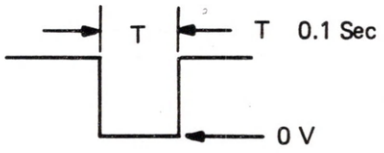
Date: September 1980 **No.** 66

Model: SLP-300/-303, SLO-320/-323

Subject: REMOTE CONNECTOR INTERFACE

The SLP-300/-303 and SLO-320/-323 series VTRs are ideally suited for remote controlled access. Specialized control networks to interface with user control systems can be easily developed. In particular, some users have expressed a desire to develop mini-computer interfaces for random access.

FIG (1)



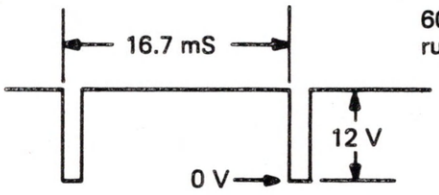
Open collector is recommended for the driving circuit.

FIG (2)



Open collector is recommended for the driving circuit.

FIG (3)



60 pulses per sec. when the tape runs normal speed at play mode.

Information about the remote connector is given below, to allow development of specialized interfaces. This information is supplied as a user option; please use discretion.

Remote Connector Interface for SLP-300/303, SLO-320/323

Pin #	Signal	Condition
1	6.5 V out	Reg. +6.5 V, for external unit (Max 0.8A)
2	DUB LED out	"L" at Dub mode, Open collector
3	REC LED out	"L" at Rec mode, Open collector
4	EDIT in	"L" enables to change the mode from Play to Rec or Dub, when pin 5 or 6 (Rec/Dub in) is "L" at the same time.
5	REC in	Command for Record, Negative pulse (Fig-1)
6	DUB in	Command for Dub, Negative pulse (Fig-1)
7 -A	Cassette-in	When cassette is in the VTR, the level is "L"
-B	CUT-OUT in	Command for Cut-out, Negative pulse (Fig-1)
8	STOP in	Command for Stop, Negative pulse (Fig-1)
9	PAUSE in	Command for Pause on-off, Negative pulse (Fig-1)
10 -A	NC	NOT CONNECTED
-B	GND	GND
11	REW in/out	Self-hold command for Rewind (Fig-2)
12	FF in/out	Self-hold command for Fast Forward, (Fig-2)
13	PLAY in/out	Self-hold command for Play, (Fig-2)
14	GND	GND
15	CTL PULSE	1 pulse per field, 60 pulses per sec. (Fig-3)
16	STOP Mode out	"L" at Stop Mode
17	PAUSE Mode out	"L" at Pause Mode
18	AUTO-OFF out	"L" at Auto-off (when the sensor inside of VTR detects condensation)
19 -A	SEARCH KILLER	"L" at Rec/EE, Dub/EE mode or the timer Play/Rec switch is ON or the programmed operation switch is ON (only for SLP-303, SLO-323) to delete the operation of random acc.
-B	SLOW in	Command for Slow on-off, Negative pulse (Fig-1)
20 -A	TAPE BEGINNING	"L" when the tape has reached beginning of the tape during Rewind mode.
-B	SLOW mode out	"L" at Slow mode.

Notes:

1) The pin No. -A shows when the REMO-CON SELECT SW is "300" position, -B shows "400" position.
2) The U-matics have no "AUTO-OFF" signal, but STANDBY signal is available at pin 18.

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Date: October 1980 **No.** 67

Model: VO-4800

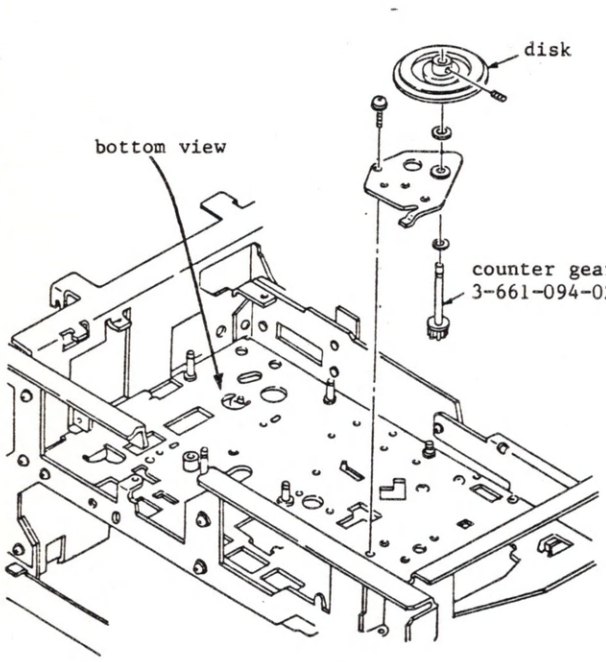
Subject: REDUCTION OF GEAR NOISE IN REW AND FF MODES

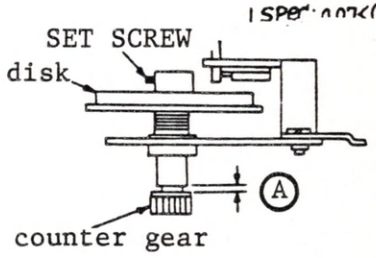
Applicable to machines with serial numbers:

VO-4800 (USA)	10001 - 10900
VO-4800 (CND)	20001 - 20100

Replace the counter gear with the new one (3-661-094-02), if the gear noise in REW and FF is objectionable.

Make these adjustments following gear replacement.





$0.07 < \text{Ⓐ} < 0.09$

1. Check that the clearance at point A meets the required specification.
2. Adjust the set screw to adjust the clearance if the specification can not be met.
3. Perform the "HALL IC CLEARANCE ADJUSTMENT" (refer to the service manual).

Ref: VTRW 80-99

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Date: October 1980 **No.** 68

Model: VO-4800

Subject: RF CASE PART STANDARDIZATION

This change has been implemented in units with the following serial numbers:

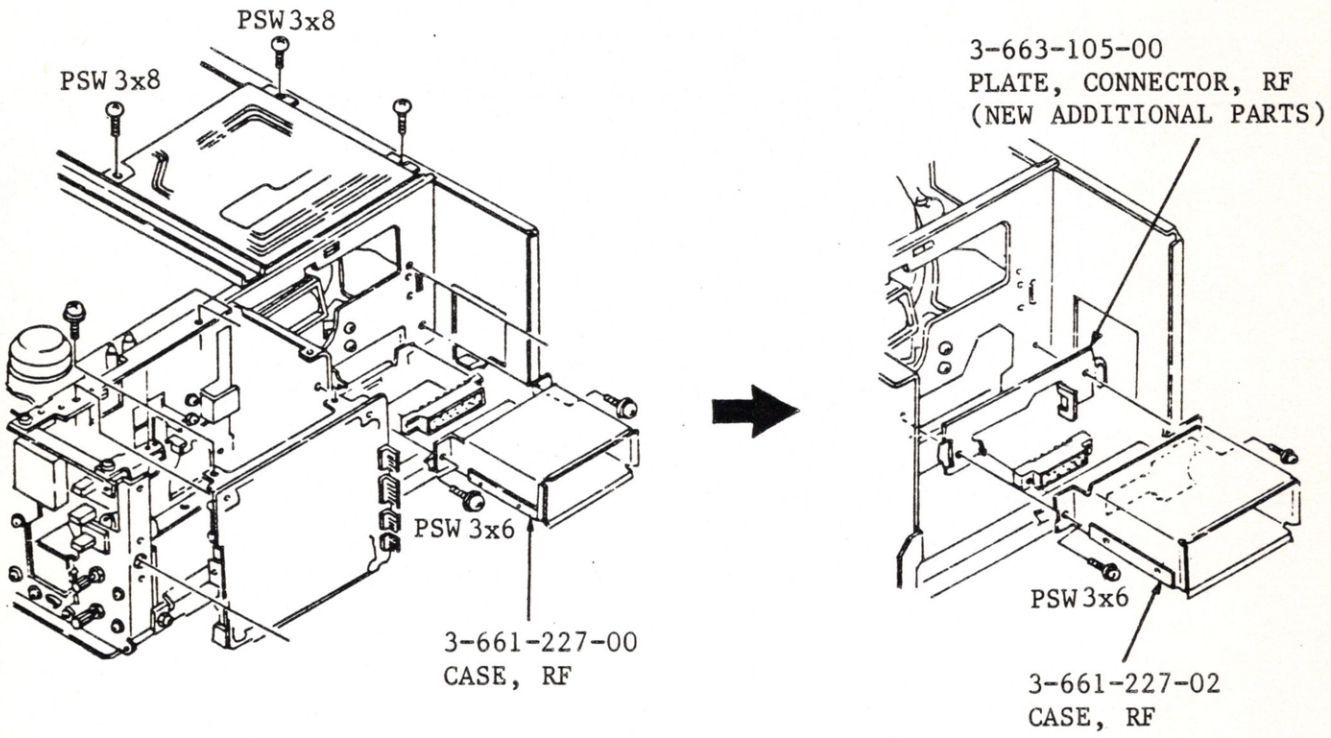
VO-4800 (USA) 11051 and higher
VO-4800 (CND) 20201 and higher.

Units with serial numbers:

VO-4800 (USA) 10001 - 11050 VO-4800 (CND) 20001 - 20200	VO-4800 (USA) 11051 and higher VO-4800 (CND) 20201 and higher
use 3-661-227-00 or 3-661-227-02	use only new part 3-661-227-02

The RF CASE has been changed to standardize the VO-4800 part with that of the European VO-4800 PAL/SECAM version. An additional part RF CONNECTOR PLATE has also been added.

The new part can be used in older units (with serial numbers occuring before the factory modified serial numbers), but the old part can not be used in newer production units.


PSW 3x8
PSW 3x8
PSW 3x6
3-661-227-00
CASE, RF
3-663-105-00
PLATE, CONNECTOR, RF
(NEW ADDITIONAL PARTS)
PSW 3x6
3-661-227-02
CASE, RF

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VTR

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Date: October 1980 **No.** 69

Model: VO-4800

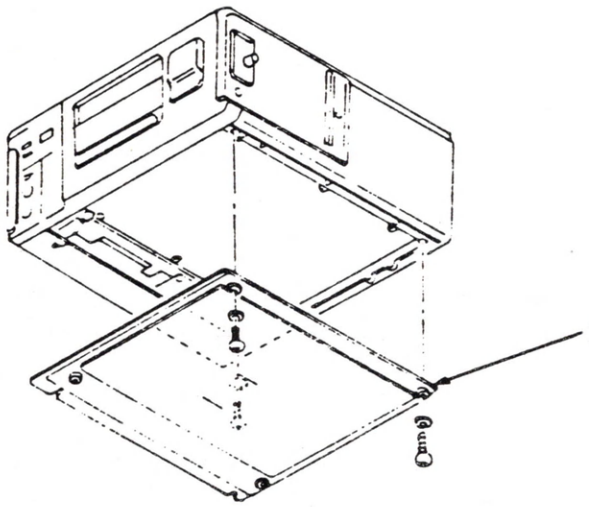
Subject: STATIC ELECTRICITY PROTECTION

This change has been incorporated in factory production into units with serial numbers:

VO-4800 (USA) 10851 and higher
VO-4800 (CND) 20201 and higher

To prevent electrical malfunction due to static electrical discharges, the SHIELD PLATE of BOTTOM PLATE ASS'Y has been modified to maintain a grounding point with the main chassis.

The new part can be used in both the newer (units in the latest production group) and the older units. To provide this static protection, do not use the old part in older or newer machines.



X-366-106-52 ➡ X-366-108-50
PLATE ASS'Y, BOTTOM

Ref: VTRW 80-101

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Date: October 1980 **No.** 70

Model: VO-4800

Subject: CHANGE OF LOCK ADJ. PLATE, SPRING, DRAWER LEVER

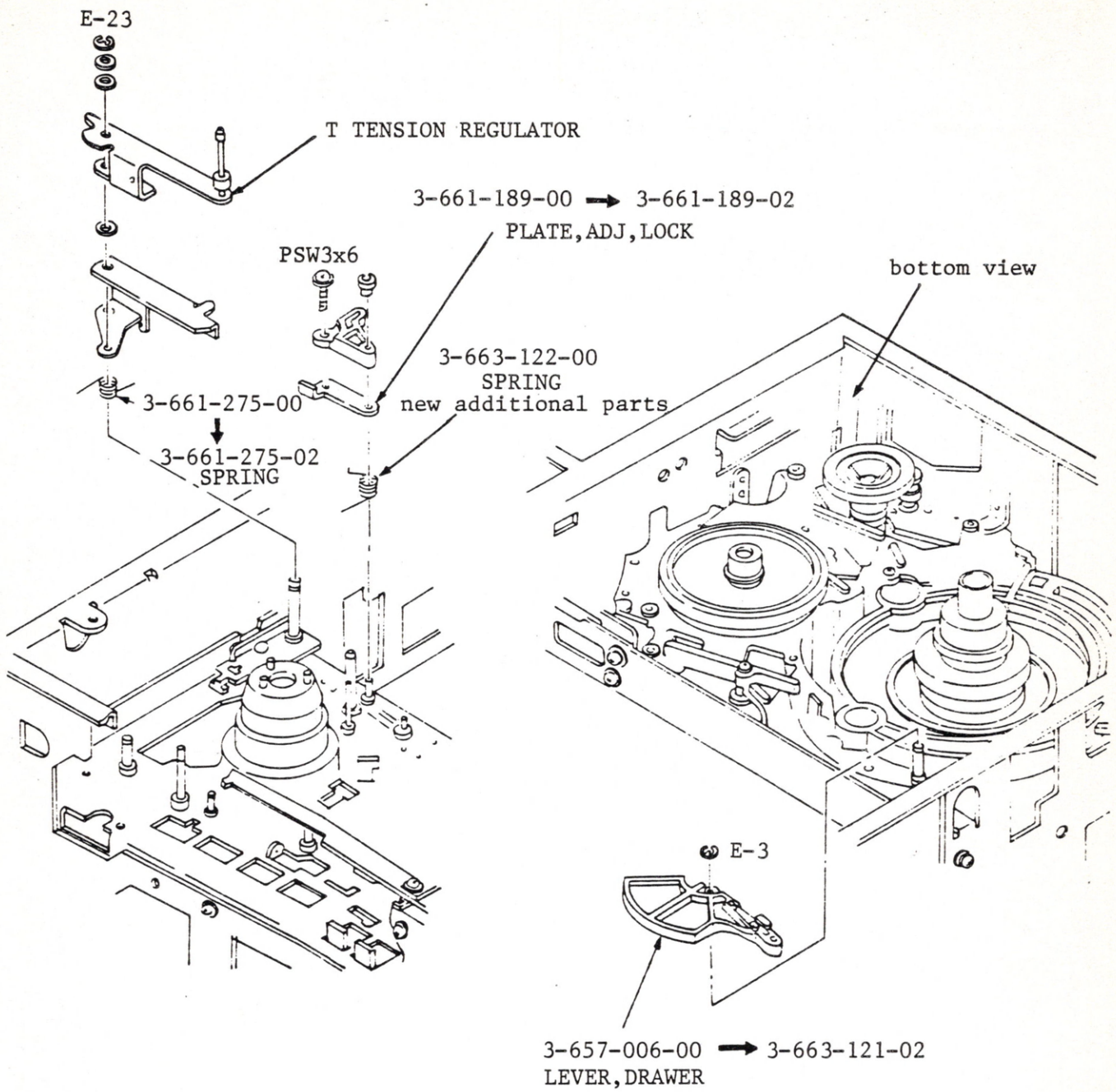
These changes are incorporated in units with serial numbers:

VO-4800 (USA) 11051 and higher
VO-4800 (CND) 20201 and higher

During EJECT, the T TENSION REGULATOR is withdrawn; however, if the ejection of the cassette compartment is interrupted momentarily, the T TENSION REGULATOR will advance slightly. This can result in tape damage when a cassette is inserted.

To prevent this possibility, the PLATE, ADJ. LOCK, DRAWER LEVER, SPRING (3-661-275-00) have been changed, and SPRING (3-663-122-00) has been added. The new and old parts are not interchangeable. Use old part numbers for older machines and new numbers for machines incorporating these changes.

Ref: VTRW 80-100


E-23
T TENSION REGULATOR
3-661-189-00 → 3-661-189-02
PLATE,ADJ,LOCK
PSW3x6
bottom view
3-663-122-00
SPRING
new additional parts
3-661-275-00
3-661-275-02
SPRING
E-3
3-657-006-00 → 3-663-121-02
LEVER,DRAWER

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Date:

No. 71

Model: VO-4800

Subject: CHANGE OF BASE SHEET

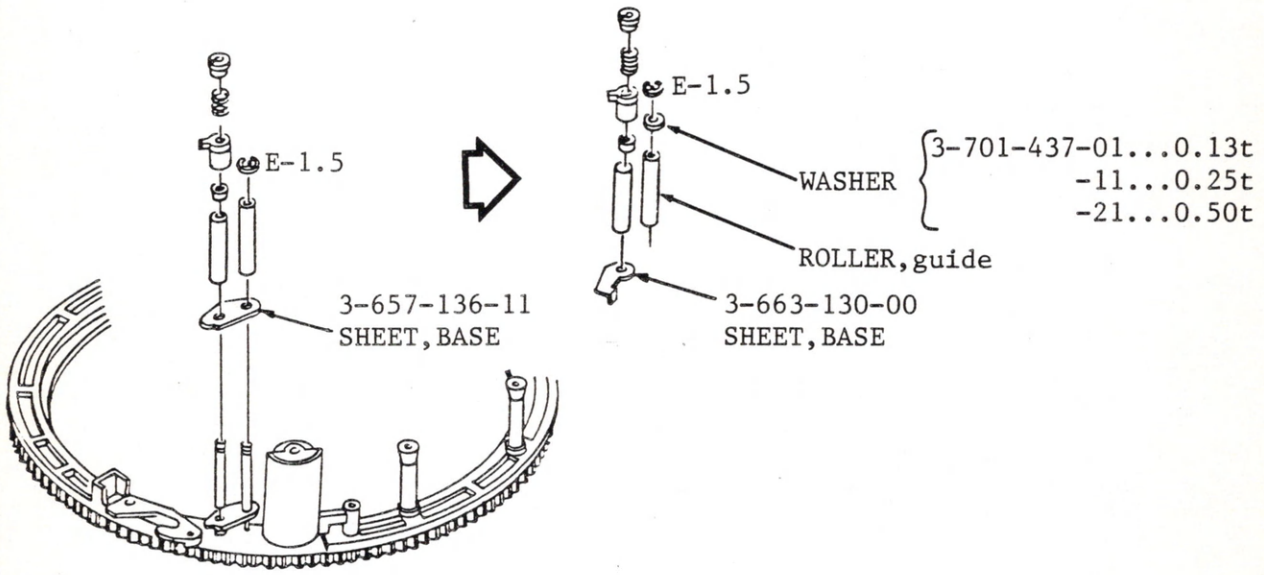
This change may be implemented on units with serial numbers:

VO-4800 (USA) 10,001 to 12,300;
VO-4800 (CND) 20,001 to 20,250.

The change has been incorporated into units with higher order serial numbers.

The BASE SHEET has been changed to improve composite shooting. The new part (3-663-130-00) and the former one (3-657-136-11) are not directly interchangeable. The new part can be used for replacement purposes in all units, but only the new part can be used in units with these serial numbers:

VO-4800 (USA) 12,301 and higher;
VO-4800 (CND) 20,251 and higher.



Ref: VTRW 80-105

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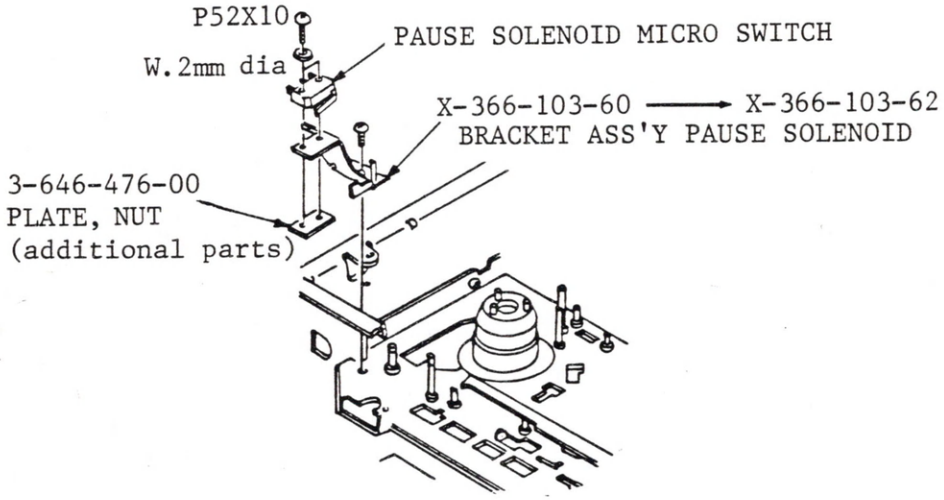
Date: December 1980 **No.** 72

Model: VO-4800

Subject: IMPROVED PAUSE SOLENOID MICRO SWITCH

A NUT PLATE has been added to a new PAUSE SOLENOID BRACKET ASS'Y to allow easier adjustment of the microswitch position. The new parts have been incorporated into the latest production units. The new and the former parts are not interchangeable.

	Former	New
VO-4800 (USA)	10,001 - 12,300	12,301 and higher
VO-4800 (CND)	20,001 - 20,250	20,251 and higher



Ref: VTWR 80-103

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Date: December 1980 **No.** 73

Model: SLO-340

Subject: IMPROVEMENT OF PAUSE EDITING

The following changes have been made to eliminate picture dropouts at edit points and to improve servo lock accuracy, in units with the following serial numbers:

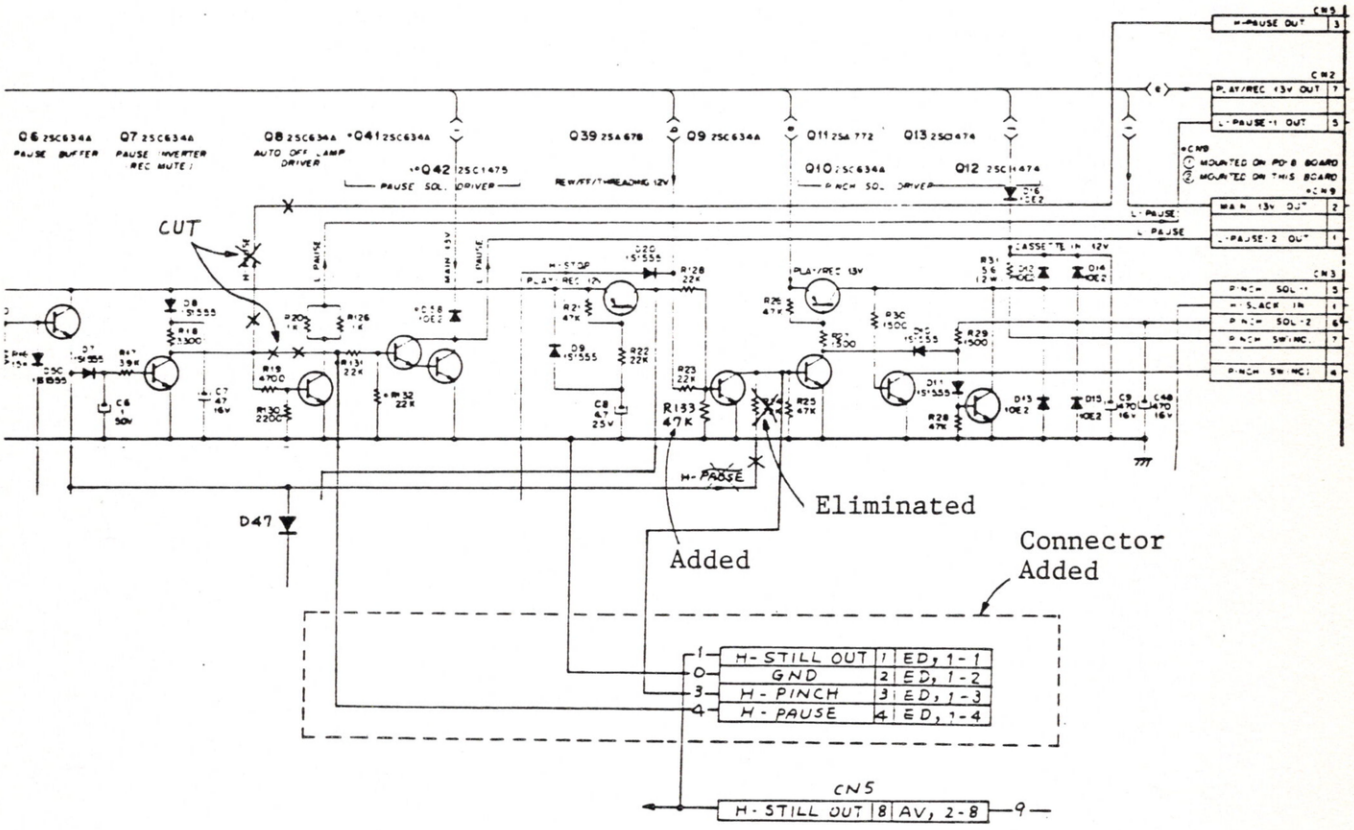
SLO-340 (USA) 17,701 and higher;
SLO-340 (CND) 30,701 and higher.

	CHANGE	FORMER P.N.	NEW P.N.
1.	SY-17 BOARD	A-671-504-4B	A-671-504-4C
2.	AV-1 BOARD	A-671-110-7B	A-671-110-7C
3.	SV-5 BOARD	A-671-305-3B	A-671-305-3C
4.	ED-8 BOARD	---	A-671-713-2A (NEW)
5.	FRAME WIRING	---	---
6.	T-PAUSE BRAKE RUBBER	3-654-617-00	3-654-617-03

Ref: VTRW 80-106

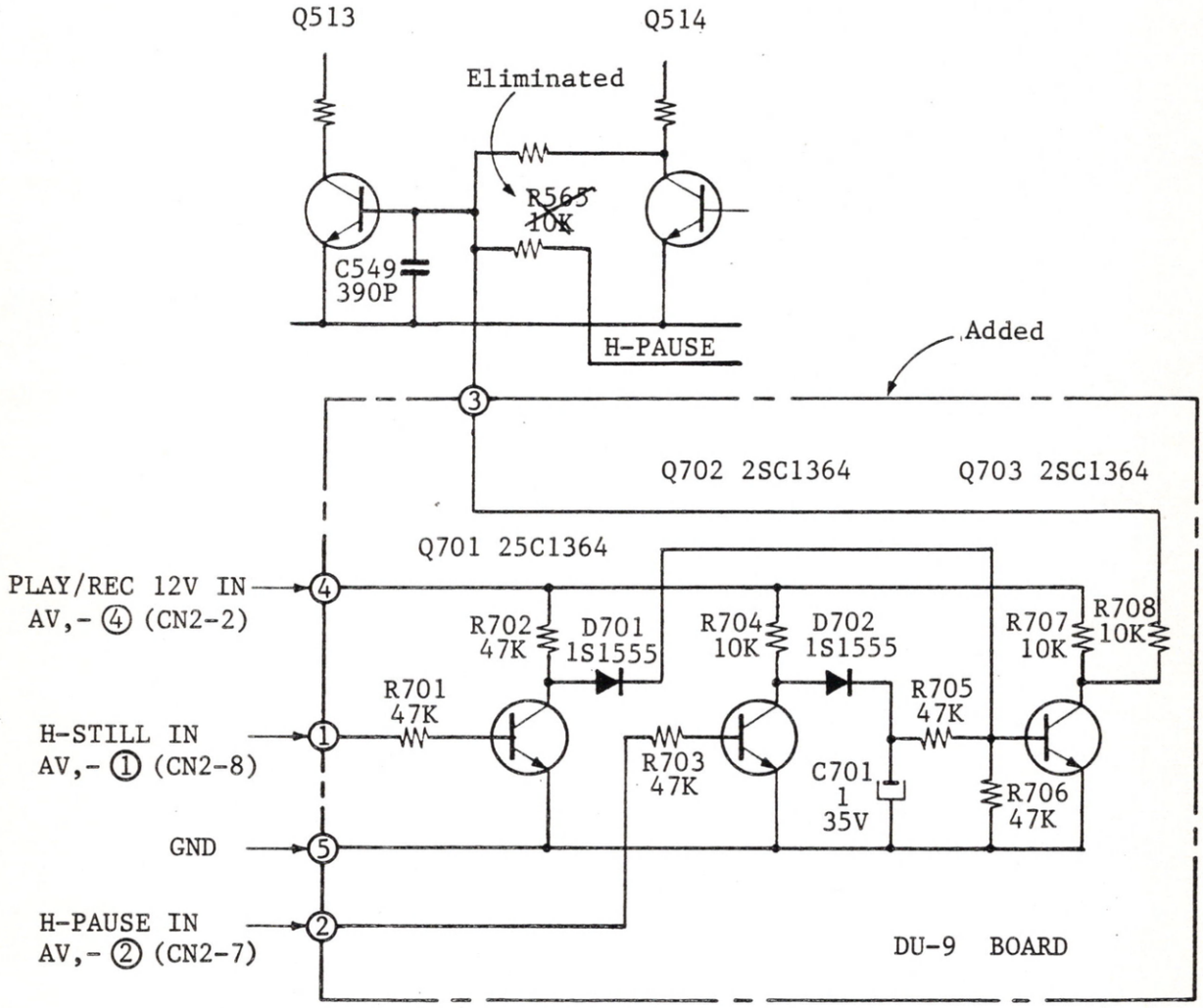
1. SY-17 BOARD

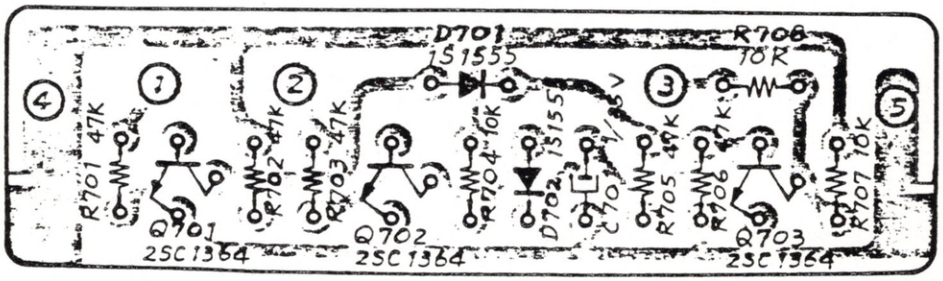
1-1. Eliminate R24, 22K ohms.
1-2. Add connector as shown.
1-3. Cut pattern in two places.
1-4. Add R133, 47K ohms.



2. AV-1 BOARD

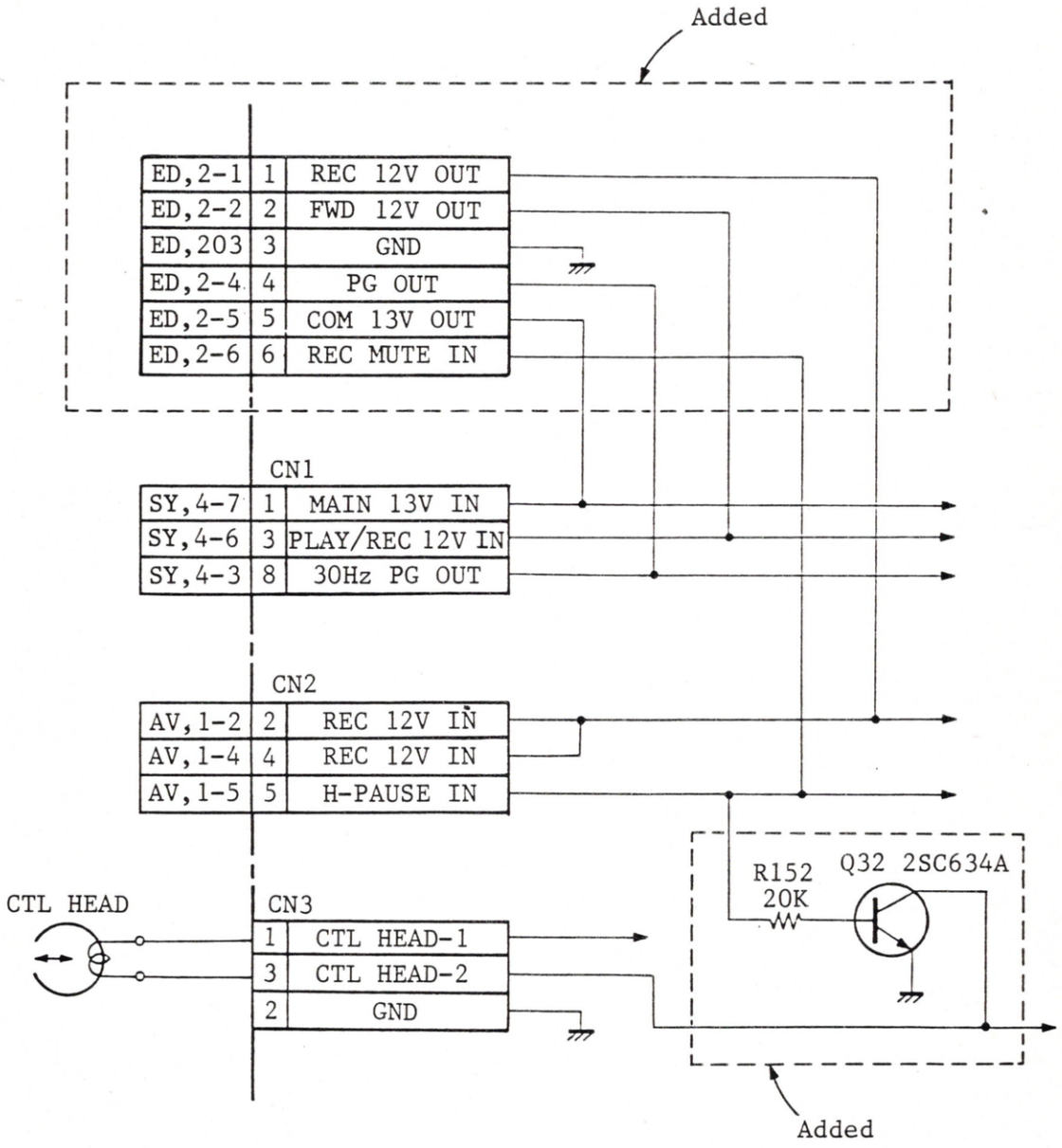
2-1. Add DU-9 Board.
2-2. Eliminate R565, 10K ohms.
2-3. Change C26, 1uF/50V to 4.7uF/50V.





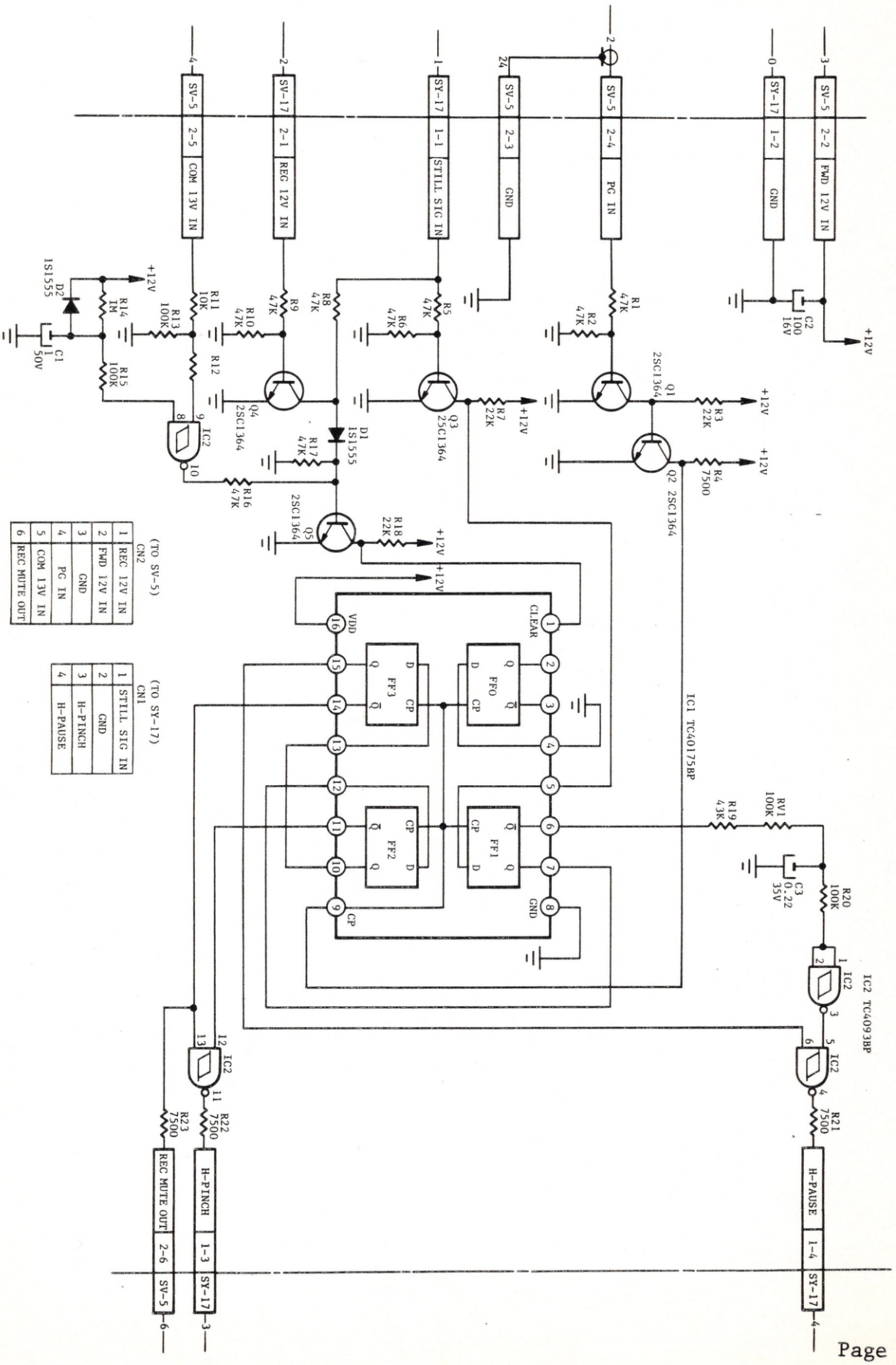
3. SV-5 BOARD

3-1. Add Q32 (2SC643A).
3-2. Add R152, 20K ohms.
3-3. Change C74, 10uF/16V to 1uF/50V.
3-4. Add connector as shown.

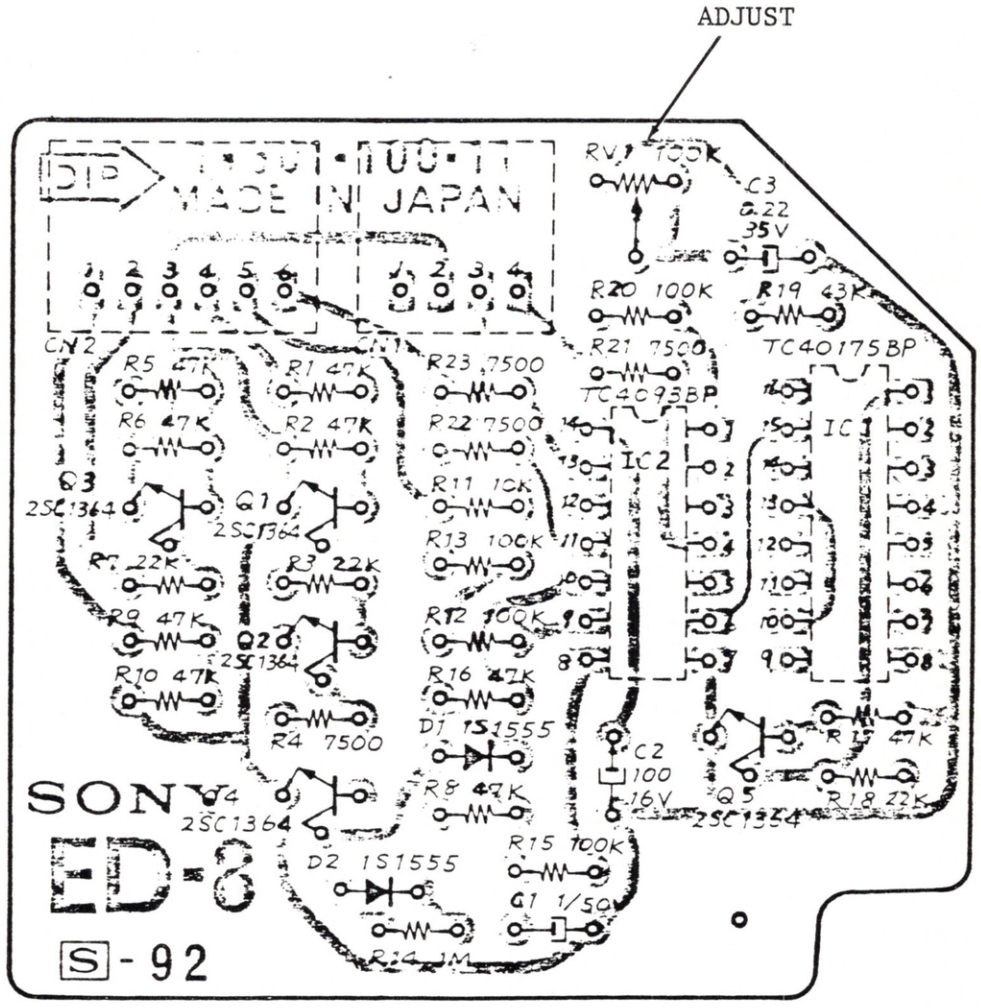


4. ED-8 BOARD (ADDED)

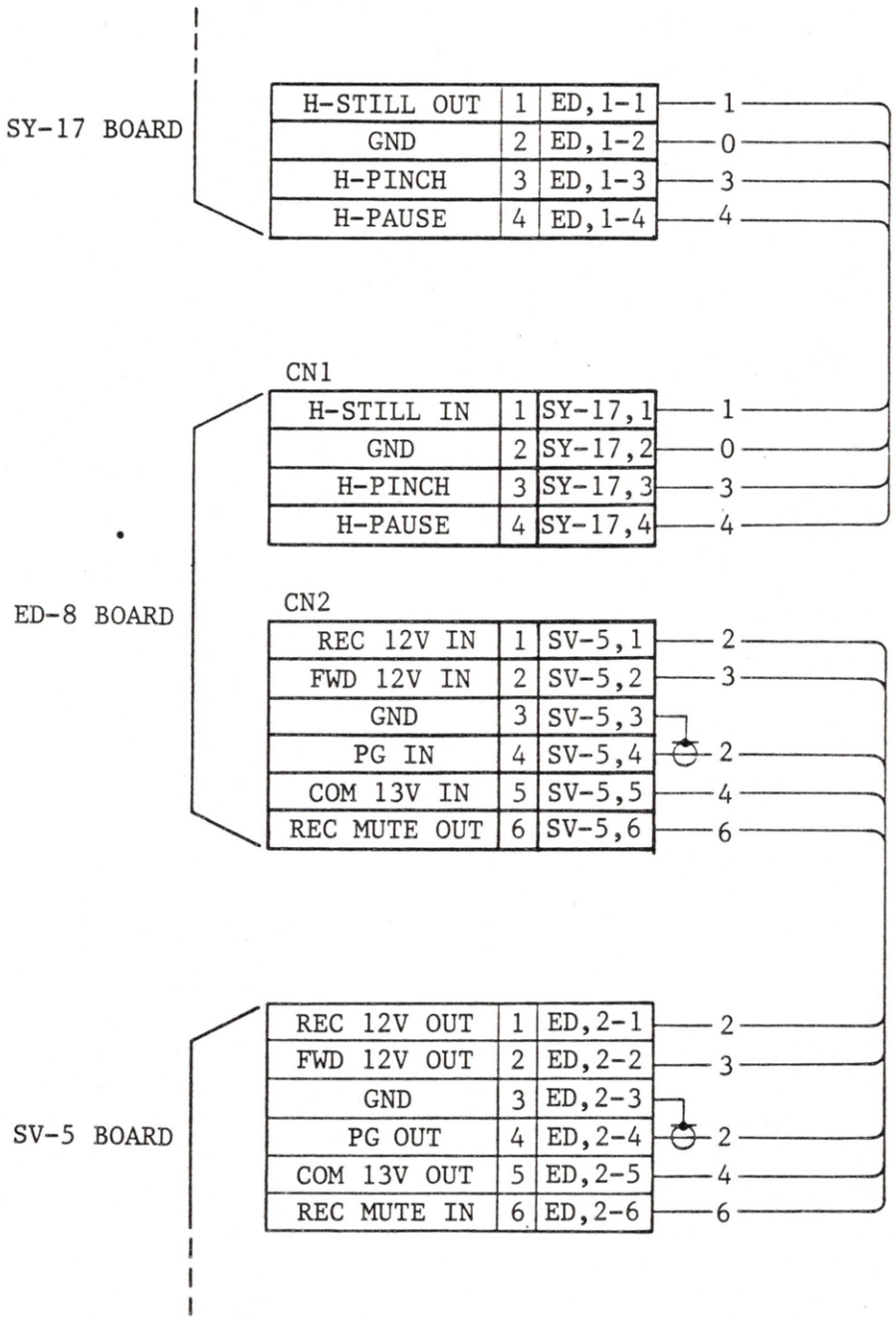
4-1. Schematic diagram.
4-2. ED-8 Board layout.
4-3. Make the following adjustments in field service:



4-3-1. Make a test recording with PAUSE editing.
4-3-2. Playback the recorded segment and adjust RV1 to eliminate picture dropouts which may appear on the monitor screen.

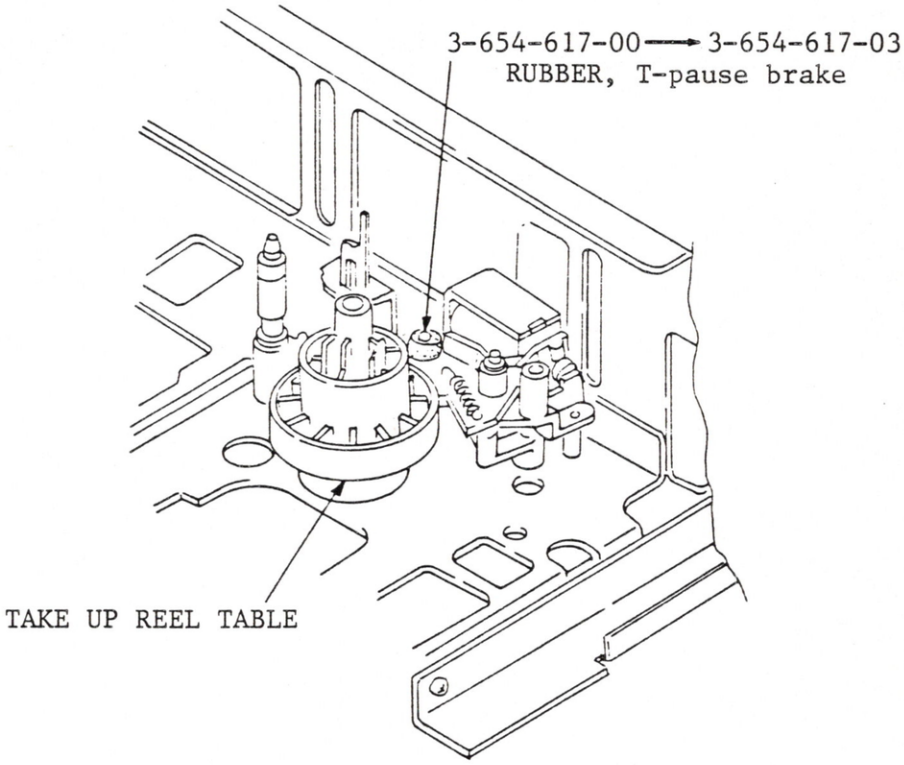


5. FRAME WIRING



connector housing 4p plug	1-509-985-00
	1-509-987-00
contact housing 6p plug	1-509-982-00

6. T-PAUSE BRAKE



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VIDEO PRODUCTS COMPANY
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700 W. Artesia Blvd. Compton, CA. 90220

Date: December 1980 **No.** 74

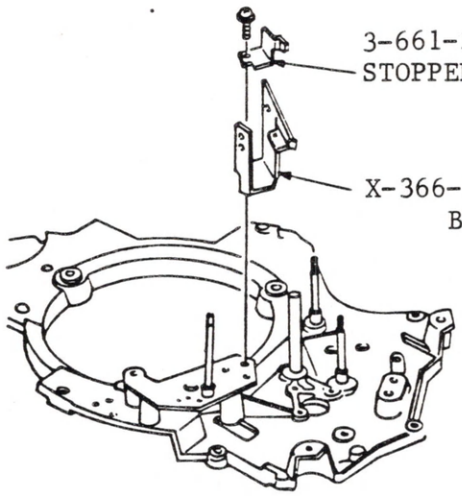
Model: VO-4800

Subject: COMBINATION OF BRACKET ASS'Y AND STR STOPPER

The BRACKET ASS'Y and the STR STOPPER have been combined into a single part and accordingly given a new part number. The new part has been incorporated into units with the following serial numbers:

VO-4800 (USA) 12,301 and higher;
VO-4800 (CND) 20,251 and higher.

The new parts and the former ones are not interchangeable, however the new part can be used to replace the two separate parts found on earlier units.



Ref: VTRW 80-102

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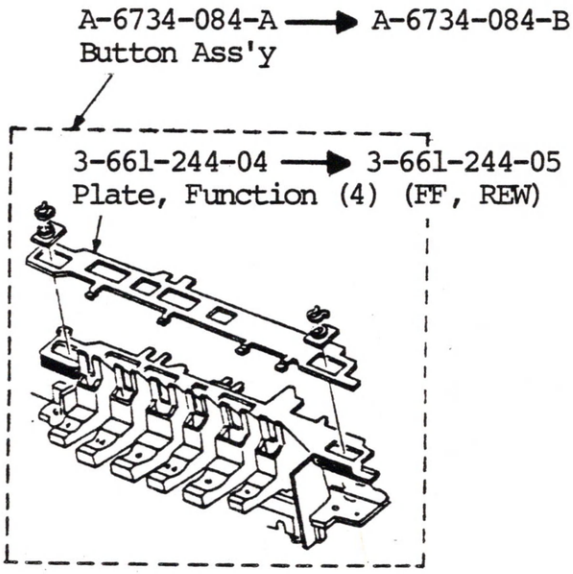
Date: January, 1981 No. 75

Model: VO-4800

Subject:

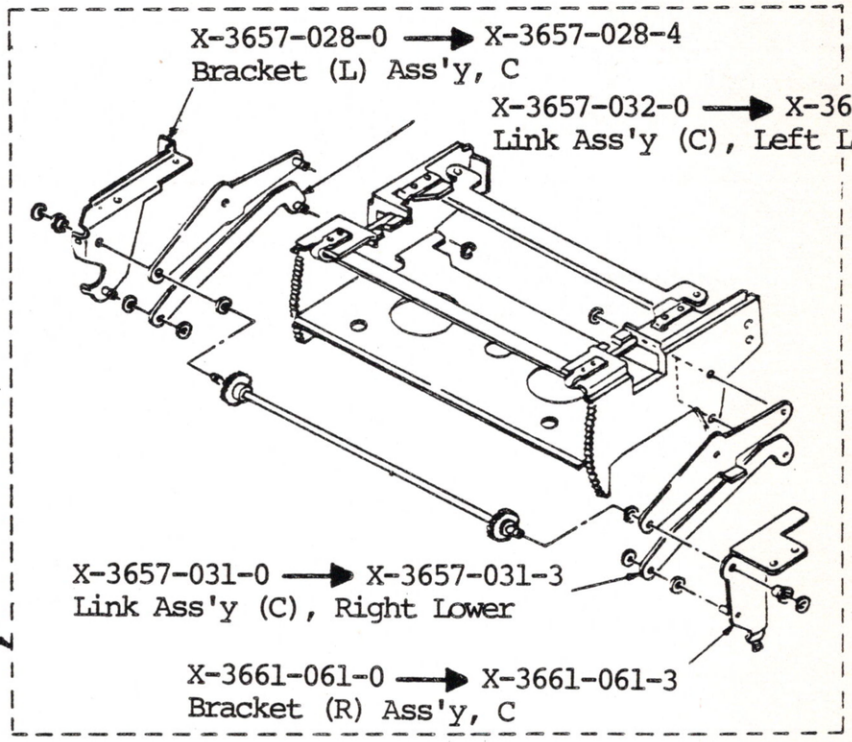
CHANGE OF FUNCTION PLATE (4) (FF, REW)

There is a possibility that the tape may loosen and be damaged in the cassette case when the mode change -- from FF to STOP, or from REW to STOP -- is repeated quickly. Therefore, the FUNCTION PLATE (4) (FF, REW) of the BUTTON ASS'Y has been changed in order to prevent tape damage.



The BRACKET (L) ASS'Y, C; LEFT LOWER LINK ASS'Y (C); RIGHT LOWER LINK ASS'Y (C); and BRACKET (R) ASS'Y, C have also been changed.

Ref: VTRW-81-1003



A-6751-071-A → A-6751-071-D
Cassette Compartment Ass'y

Factory modified serial numbers:

11051 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-11050	11051 and higher
old part	A-6734-084-A	YES	NO
new part	A-6734-084-B	YES (1)	YES
old part	3-661-244-04	YES	NO
new part	3-661-244-05	YES (1)	YES
old part	A-6751-071-A	YES	NO
new part	A-6751-071-D	YES	YES
old part	X-3661-061-0	YES	NO
new part	X-3661-061-3	YES (2)	YES
old part	X-3657-031-0	YES	NO
new part	X-3657-031-3	YES (3)	YES
old part	X-3657-032-0	YES	NO
new part	X-3657-032-3	YES (4)	YES
old part	X-3657-028-0	YES	NO
new part	X-3657-028-4	YES (5)	YES

NOTE: (1) Must be used with X-3657-031-3 and X-3661-061-3.
(2) Must be used with X-3657-031-3.
(3) Must be used with X-3661-061-3.
(4) Must be used with X-3657-028-4.
(5) Must be used with X-3657-032-3.

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Date: January, 1981 **No.** 76

Model: DXC-1640, DXC-1800

CAMERA

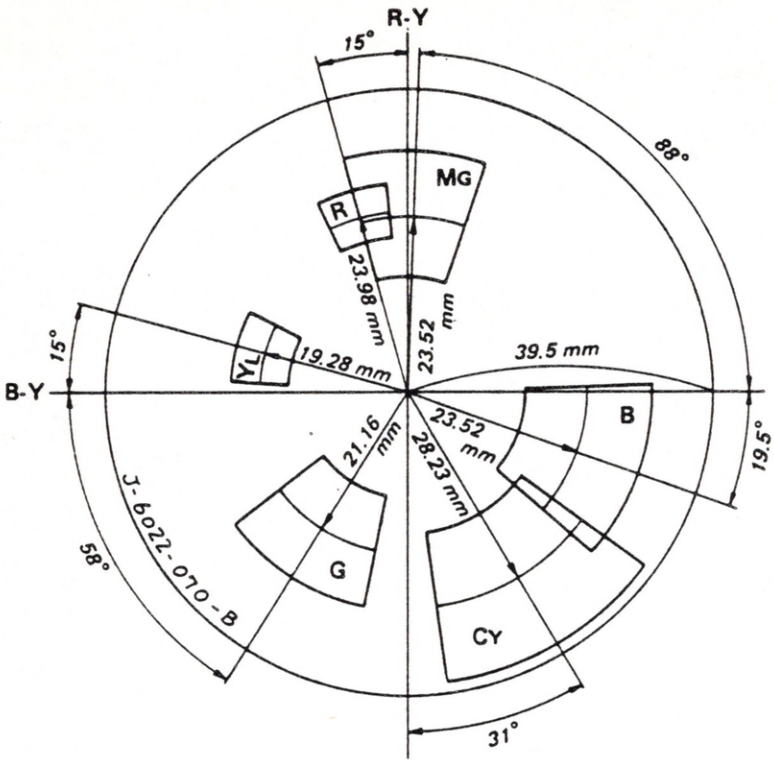
Subject: NEW SONY SPECIFIED VECTOR SCALE

Due to specification changes, the SONY SPECIFIED VECTOR SCALE (J-6022-070-A) has been revised. The part number of the new SCALE will end with the letter "B".

(old)	(new)
Sony Specified Vector Scale (J-6022-070-A)	Sony Specified Vector Scale (J-6022-070-B)

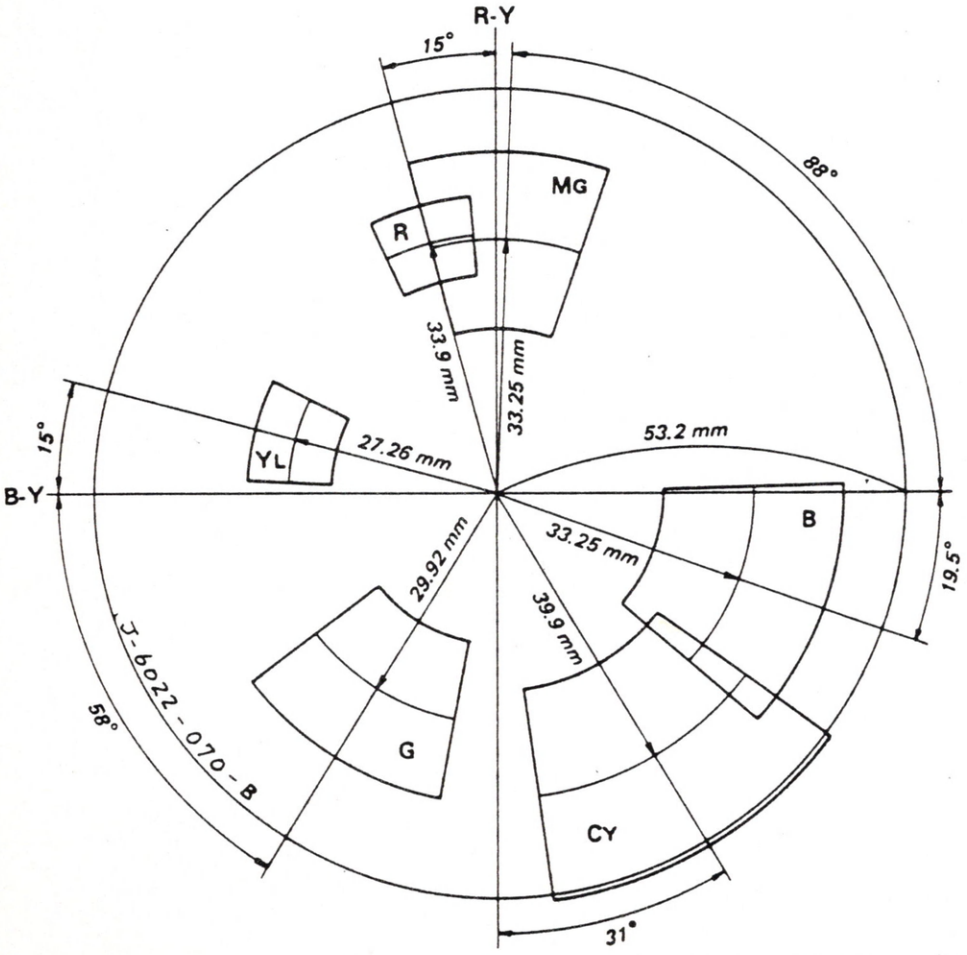
Ref: VTRW-80-128

Sony Specified Vectorscope Scale



2/3 inch trinicon color specifications

	SPEC	
	PHASE	LEVEL
R	± 10°	± 15%
Y_L	± 12°	± 20%
G	± 21°	± 35%
C_Y	± 23°	± 35%
B	± 21.5°	± 35%
M_G	± 17°	± 35%



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Date: January 1981 **No.** 77

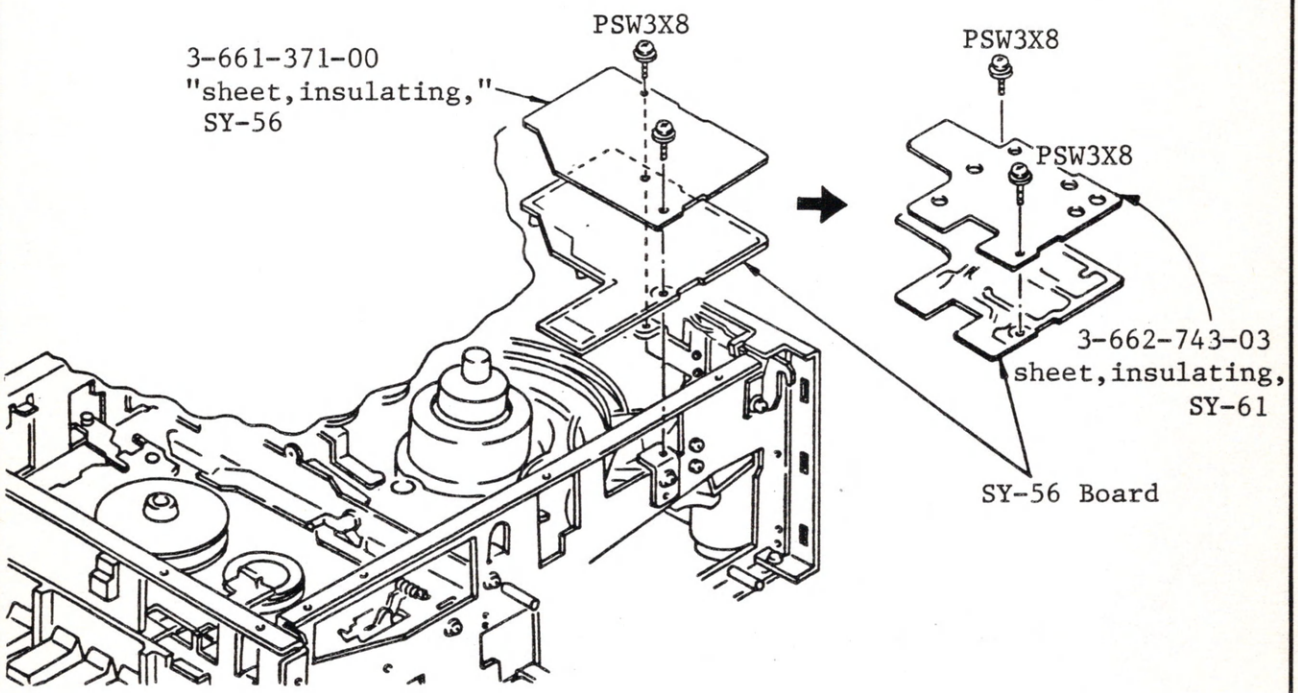
Model: VO-4800

Subject: CHANGE OF SY-56 BOARD INSULATING SHEET

The shape of the SY-56 Board (VO-4800) Insulating Sheet has been changed to the same type used on the SY-61 Board (BVU-110), to improve part uniformity. The former and new parts are not interchangeable. The new part has been incorporated in units with serial numbers:

VO-4800 (USA) 12,601 and higher;
VO-4800 (CND) 20,251 and higher.

Units with earlier serial numbers should continue using the former part.



Ref: VTRW 80-108

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Date:

No. 78

Model: VO-4800

Subject: CHANGE OF THREADING RING ARM ASS'Y

The Threading Ring TR ARM ASS'Y has been changed to allow for position adjustment between the TR-DRAWER ARM and the Z-Point. This change will improve the FWD back-tension operation which occurs at threading end. Accordingly, a procedure for the adjustment of the TR ARM ASS'Y has also been added. These changes are included in units with serial numbers:

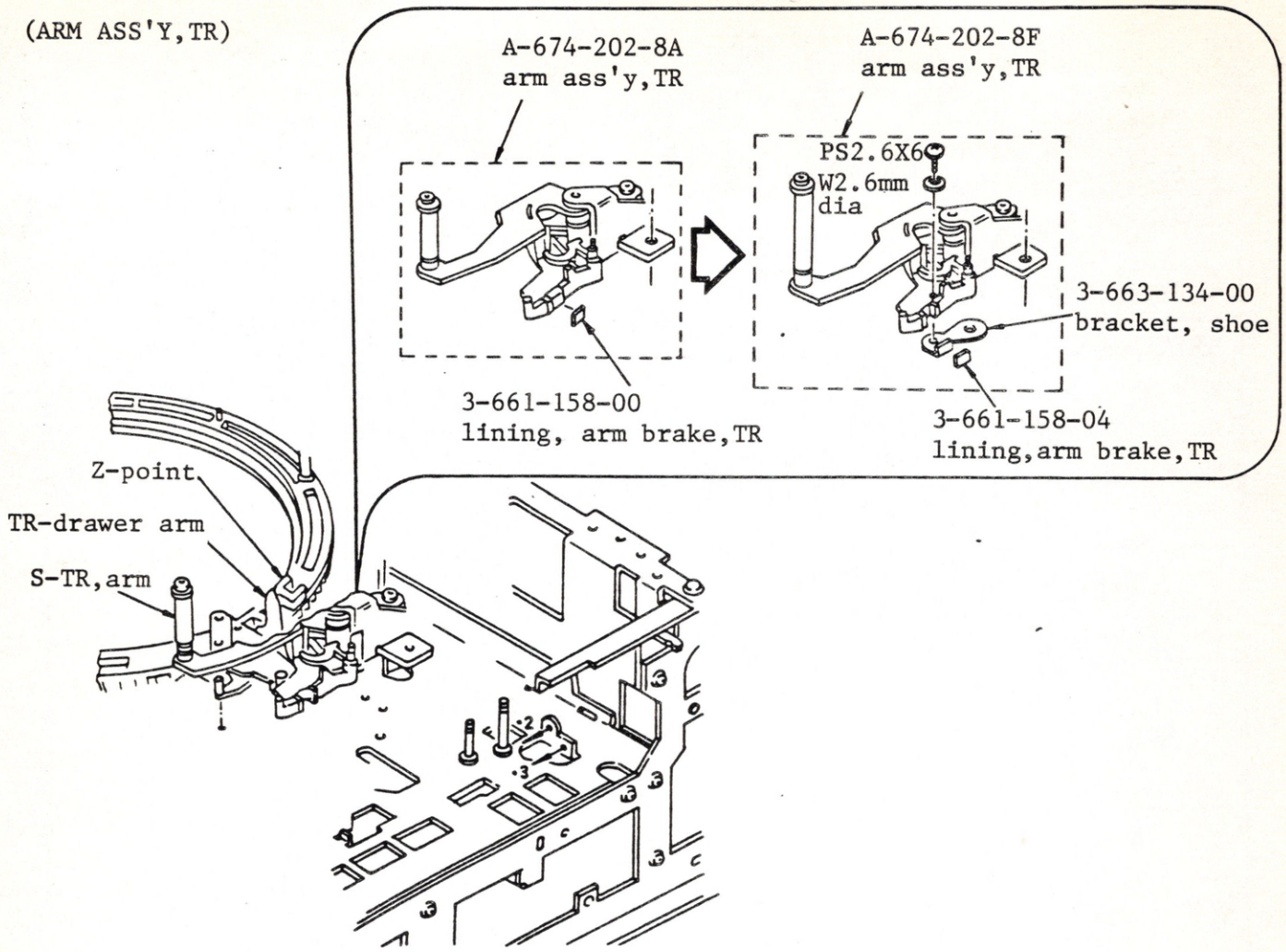
VO-4800 (USA) 12,301 and higher;
VO-4800 (CND) 20,251 and higher.

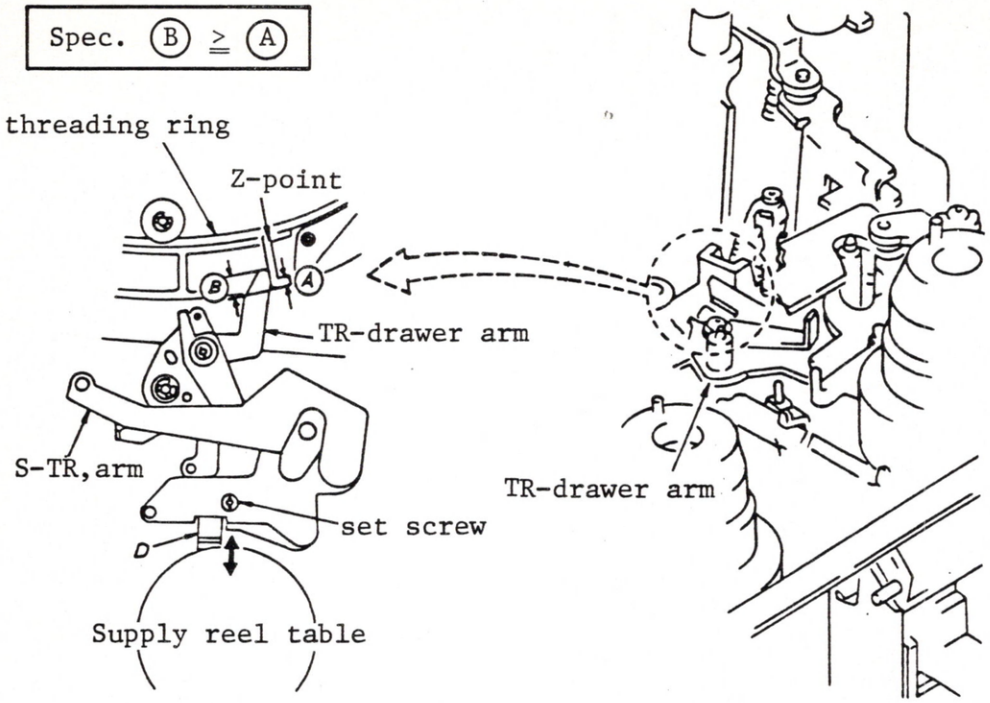
The new parts may be used on all machines.

DESCRIPTION	FORMER	NEW
Units with S.N. (USA)	10001 - 12300	12301 and higher;
(CND)	20001 - 20250	20251 and higher.
ARM ASS'Y, TR	A-674-202-8A	A-674-202-8F
LINING, ARM BRAKE, TR	3-661-158-00	3-661-158-04
BRACKET, SHOE	-------	3-663-134-00

Ref: VTRW 80-109

(ARM ASS'Y,TR)


A-674-202-8A
arm ass'y,TR
A-674-202-8F
arm ass'y,TR
PS2.6X6
W2.6mm
dia
3-663-134-00
bracket, shoe
3-661-158-00
lining, arm brake,TR
3-661-158-04
lining,arm brake,TR
Z-point
TR-drawer arm
S-TR,arm



TR-DRAWER ARM POSITION ADJUSTMENT (1)

If normal FWD back-tension is incorrect, make this adjustment. This adjustment allows for correct positioning of the S-TR, ARM at threading end, which provides correct FWD back-tension.

Cassette tape : ----------
Mode : Turn power OFF after EJECT mode.

Check Procedure : (i) Turn threading ring by hand, clockwise.

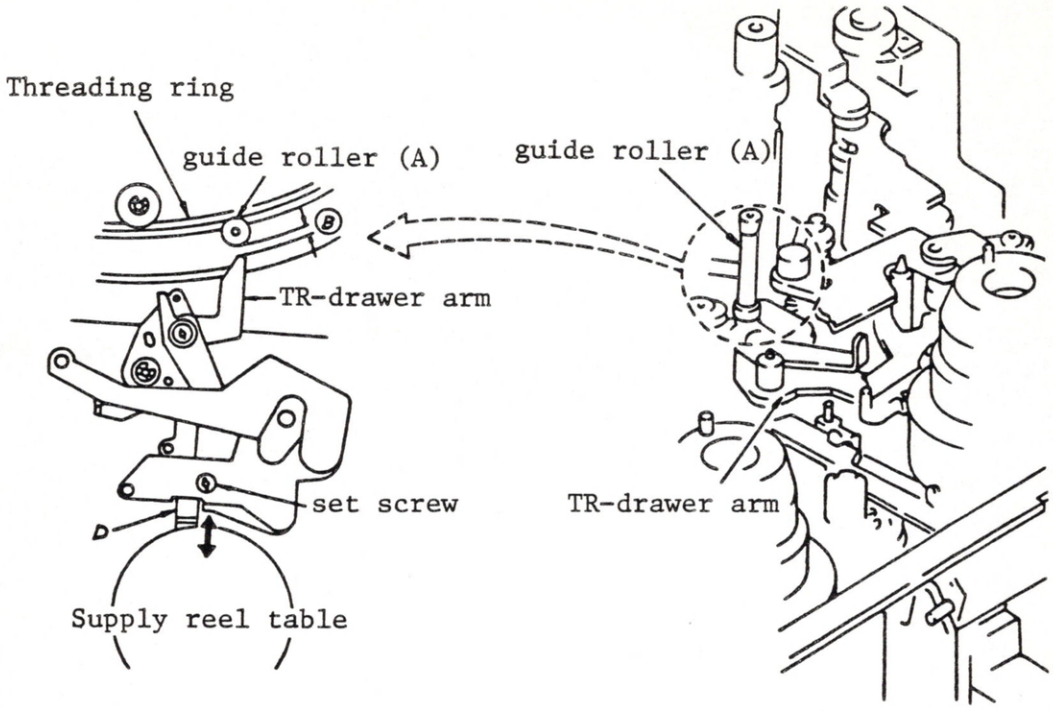
(ii) Stop threading ring so that TR-DRAWER ARM contacts the Z-point.

(iii) Check that B clearance meets the required spec.

(iv) Perform TR-DRAWER ARM ADJUSTMENT (2).

Adjustment : Adjust D position.

Spec. (B) ≧ 0.5mm



TR-DRAWER ARM ADJUSTMENT (2)

If TR-DRAWER ARM contacts Guide Roller (A), make the following adjustments.

Cassette tape : ----------
Mode : Turn power OFF after EJECT mode.

Check Procedure : (i) Turn threading ring by hand, clockwise.

(ii) Stop threading ring so that TR-DRAWER ARM comes closest to Guide Roller (A).

(iii) Check that B clearance meets the required spec.

(iv) Perform TR-DRAWER ARM ADJUSTMENT (1).

Adjustment : Adjust D position.

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Date: January 1981 **No.** 79

Model: VO-4800

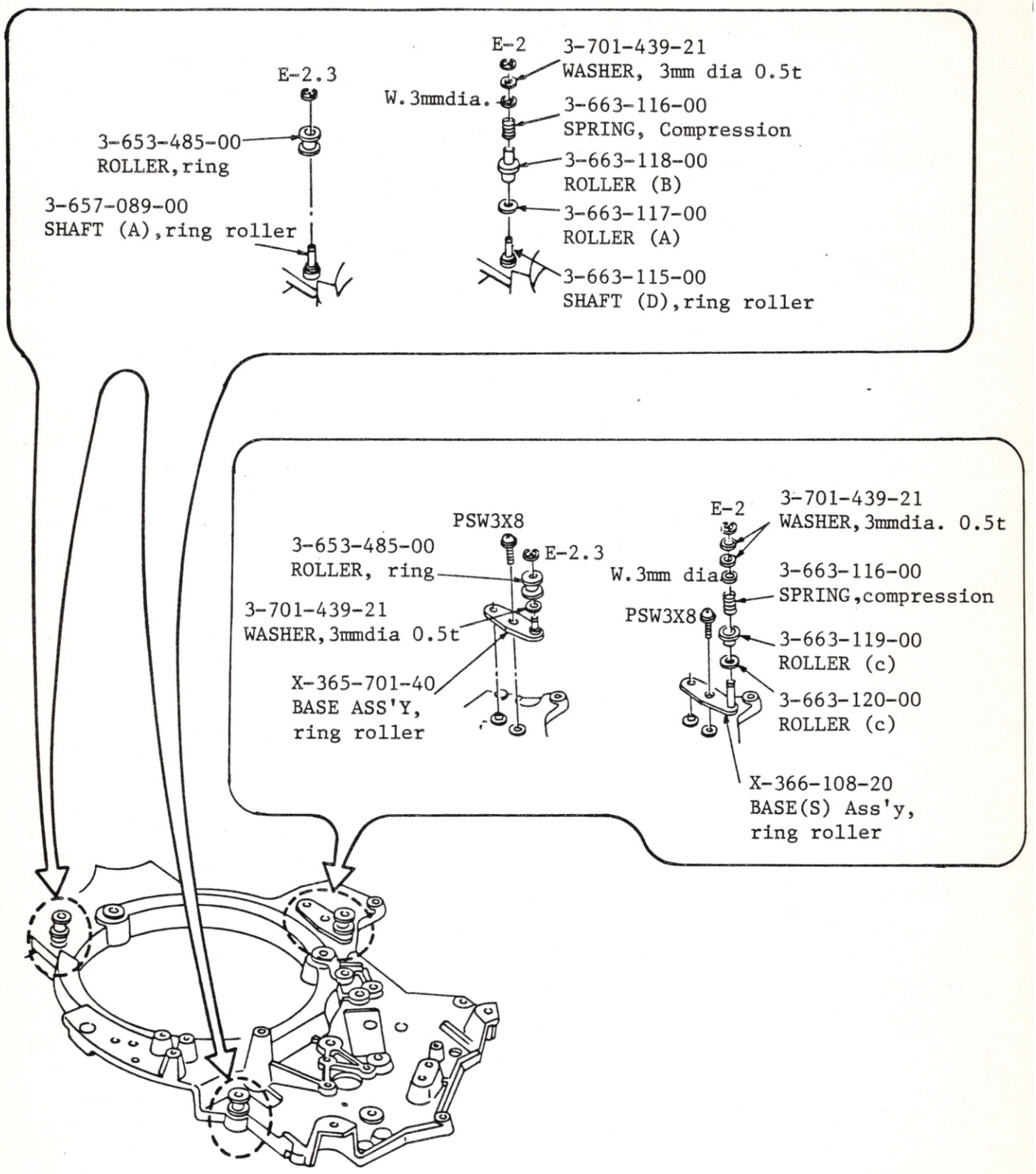
Subject: CHANGE OF ROLLER RING

The ROLLER RING has been modified to improve the composite shooting. The modification consists of both part changes and additions, therefore the newer and former parts are not interchangeable. Units with the following serial numbers have been modified in the current production; in units with lower serial numbers, the former set of parts should be used for replacemant purposes.

VO-4800 (USA)	10,001 - 10,805	10,851 and higher;
VO-4800 (CND)	20,001 - 20,100	20,101 and higher.

former parts	X-365-570-40
	3-653-485-00
	3-657-089-00
new parts	X-366-108-20
	3-663-115-00
	3-663-116-00
	3-663-117-00
	3-663-118-00
	3-663-119-00
	3-663-120-00

Ref: VTRW 80-104


E-2.3
3-653-485-00
ROLLER,ring
3-657-089-00
SHAFT (A),ring roller
E-2
W.3mmdia.
3-701-439-21
WASHER, 3mm dia 0.5t
3-663-116-00
SPRING, Compression
3-663-118-00
ROLLER (B)
3-663-117-00
ROLLER (A)
3-663-115-00
SHAFT (D),ring roller
PSW3X8
3-653-485-00
ROLLER, ring
E-2.3
3-701-439-21
WASHER,3mmdia 0.5t
X-365-701-40
BASE ASS'Y,
ring roller
E-2
3-701-439-21
WASHER,3mmdia. 0.5t
W.3mm dia
3-663-116-00
SPRING,compression
PSW3X8
3-663-119-00
ROLLER (c)
3-663-120-00
ROLLER (c)
X-366-108-20
BASE(S) Ass'y,
ring roller

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Date: February 1981 **No.** 80

Model: VO-4800

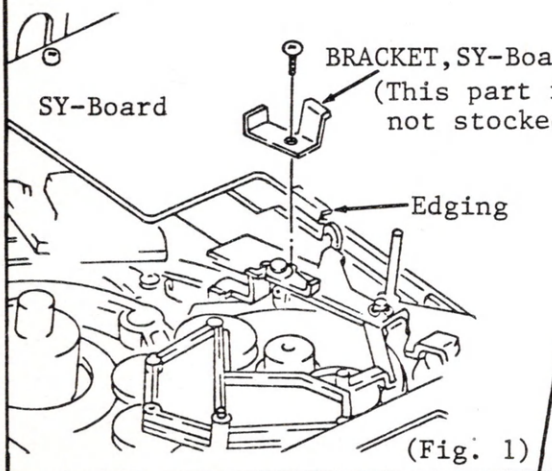
Subject: 1. NEW SY-BOARD BRACKET
2. NEW STOP BUTTON

1. Units with these serial numbers incorporate the change:
VO-4800 (USA): 12301 and higher
VO-4800 (CND): 20251 and higher

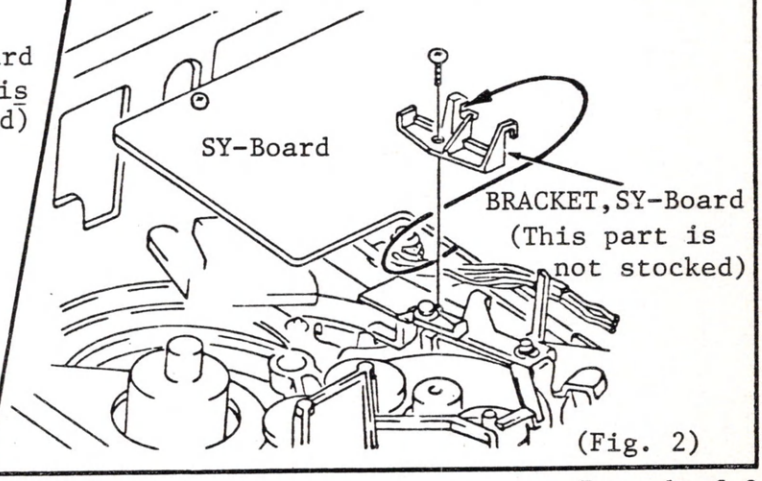
A new BRACKET, SY-BOARD has been added to the SY-49 board in current production. This differently shaped bracket does not require the metal "EDGING" on the SY board. (See Fig. 1.)

Consequently, when installing an SY-49 board, be sure to note the following.

	Serial no. of unit VO-4800(USA)--10001 to 12300 VO-4800(CND)--20001 to 20250	Serial no. of unit VO-4800(USA)--12301 and up VO-4800(CND)--20251 and up
SY Board with EDGING	Usable as is	Remove the EDGING
SY Board without EDGING	1. Remove EDGING from former board 2. Install EDGING on new board	Usable as is
	See Fig. 1	See Fig. 2



(Fig. 1)

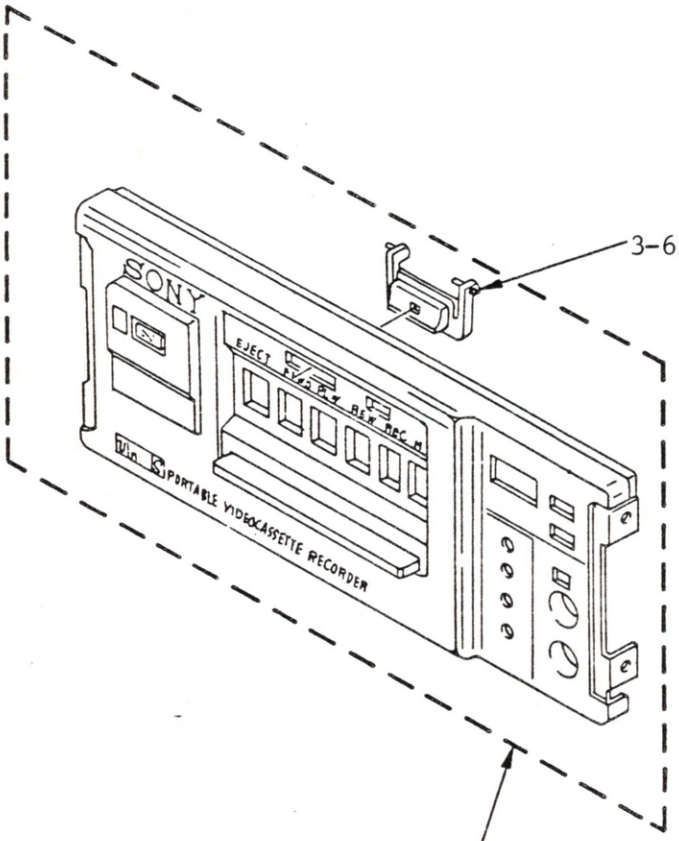


(Fig. 2)

Ref: 1. VTRW 80-110
2. VTRW 80-114

2. Units with these serial numbers incorporate the new STOP button:
VO-4800(USA): 14051 and higher
VO-4800(CND): 20401 and higher

A new STOP button which requires slightly more pressure to activate it has been added to current production. Also, the hole in the PANEL, FRONT has been enlarged to accomodate it.
This change was made to prevent inadvertent activation of the STOP mode.



3-651-229-00 3-661-229-04 (VO-4800)
BUTTON, STOP

A-670-403-6A A-670-403-6C (V)-4800)
PANEL, FRONT

Be advised of the following notes on interchangeability between the former and new STOP button and front panel.

	part number	Serial number of machines VO-4800(USA)----10001 to 14050 VO-4800(CND)----20001 to 20400	Serial number of machines VO-4800(USA)----14051 and higher VO-4800(CND)----20401 and higher
former part	3-661-229-00	possible	not possible
new part	3-661-229-04	not possible	possible
former part	A-6704-036-A	possible	not possible
new part	A-6704-036-C	possible	possible

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Date: July, 1981 **No.** 81R

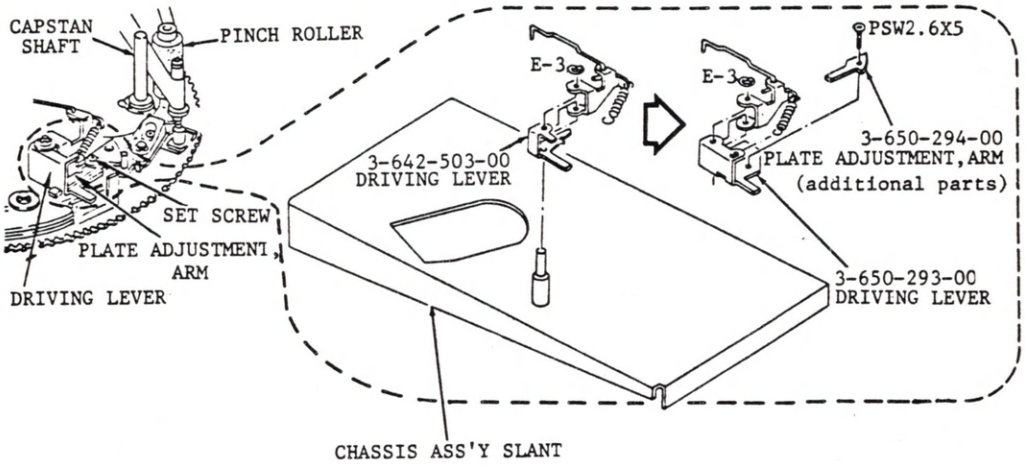
Model: VO-2800

Subject:

STANDARDIZED DRIVING LEVER

Serial numbers incorporating standardized part:
VO-2800(USA): 16451 and higher
VO-2800(CND): 20651 and higher

The VO-2800 DRIVING LEVER has been changed to a type used in other U-MATIC 2000-series VTRs.
This lever also adds to the assembly a PLATE, ADJUSTMENT, ARM (see below) which makes the position of the PINCH ROLLER in the PAUSE mode adjustable. See the reverse of this bulletin for the adjustment procedure.



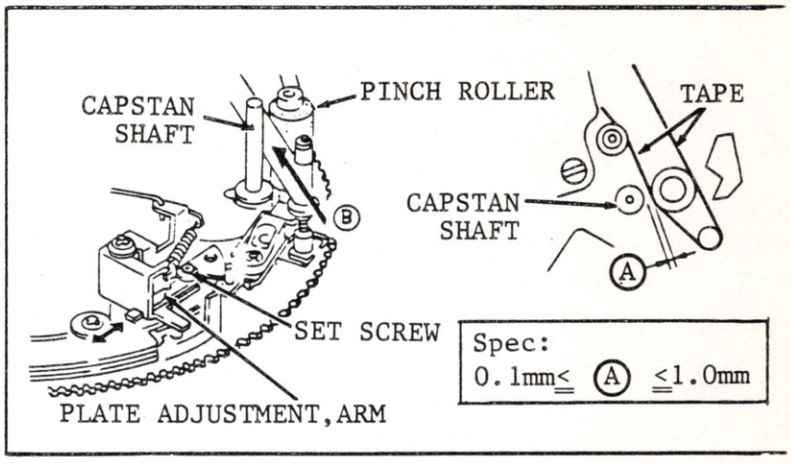
Interchangeability information

	part number	Serial number of machines VO-2800(USA)---10001∿16450 VO-2800(CND)---20001∿20650	Serial number of machines VO-2800(USA)---16451 and higher VO-2800(CND)---20651 and higher
former part	3-642-503-00	possible	not possible
new part	3-650-293-00	possible	possible
new part	3-650-294-00	possible (note: use the 3-650-293-00 at the same time.)	possible

Ref: VTRW 80-116

PINCH ROLLER POSITION ADJUSTMENT IN PAUSE MODE

Cassette tape: KCA-60
Mode : PAUSE
Check procedure:
Observe the capstan from position B in the arrow direction shown in the figure. Check that the clearance between the capstan shaft and the tape meets the required specification.
Adjustment procedure:
Adjust the position of the PLATE, ADJUSTMENT, ARM in the direction of the arrow.



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Date: February 1981 **No.** 82

Model: LVO-7000, TVO-9000, 2000-Series

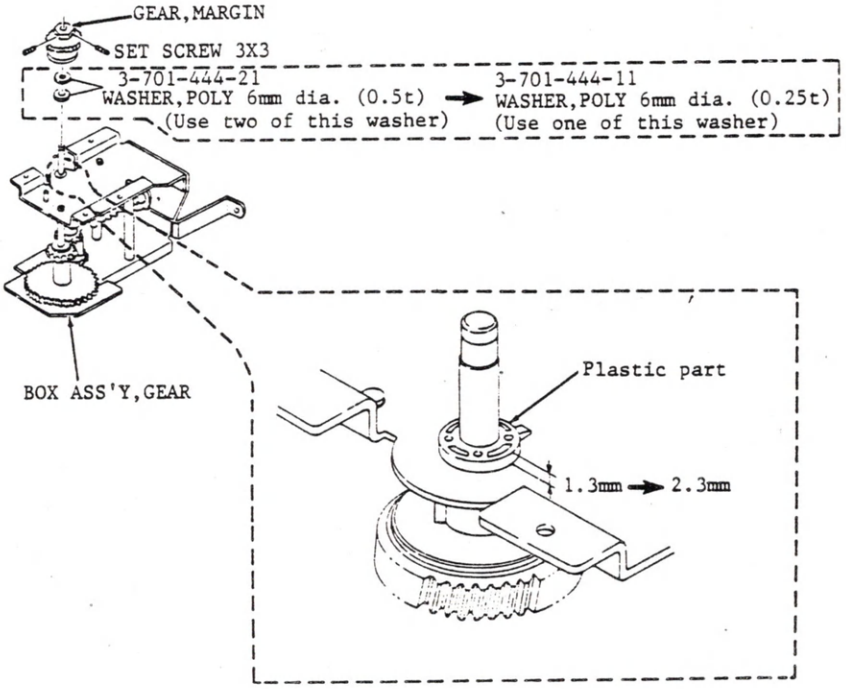
Subject: 1. GEAR BOX ASS'Y REPLACEMENT
2. DRUM BASE ASS'Y CHANGES

1. Applicable to following models and serial numbers.

LVO-7000(USA):	10391 and higher	LVO-7000(CND):	10031 and higher
TVO-9000(USA):	30031 and higher	TVO-9000(CND):	20076 and higher
VO-2610(USA):	26591 and higher	VO-2610(CND):	11901 and higher
VO-2611(USA):	10821 and higher	VO-2610(CND):	20181 and higher
VO-2800(USA):	16651 and higher	VO-2800(CND):	20651 and higher
VO-2860A(USA):	13371 and higher	VO-2860A(CND):	20201 and higher
VP-2010(USA):	19731 and higher	VP-2010(CND):	11351 and higher
VP-2011(USA):	14951 and higher	VP-2011(CND):	20501 and higher
VP-2260(USA):	10061 and higher	VP-2260(CND):	10301 and higher

The plastic bearing for the BOX ASSEMBLY, GEAR has been changed to a standard part. Also, the thickness of the WASHER, POLY has also been changed for better MARGIN GEAR seating.

Therefore, when replacing the GEAR BOX ASSEMBLY, determine if it is the former or new type, and if necessary change the POLY WASHER.



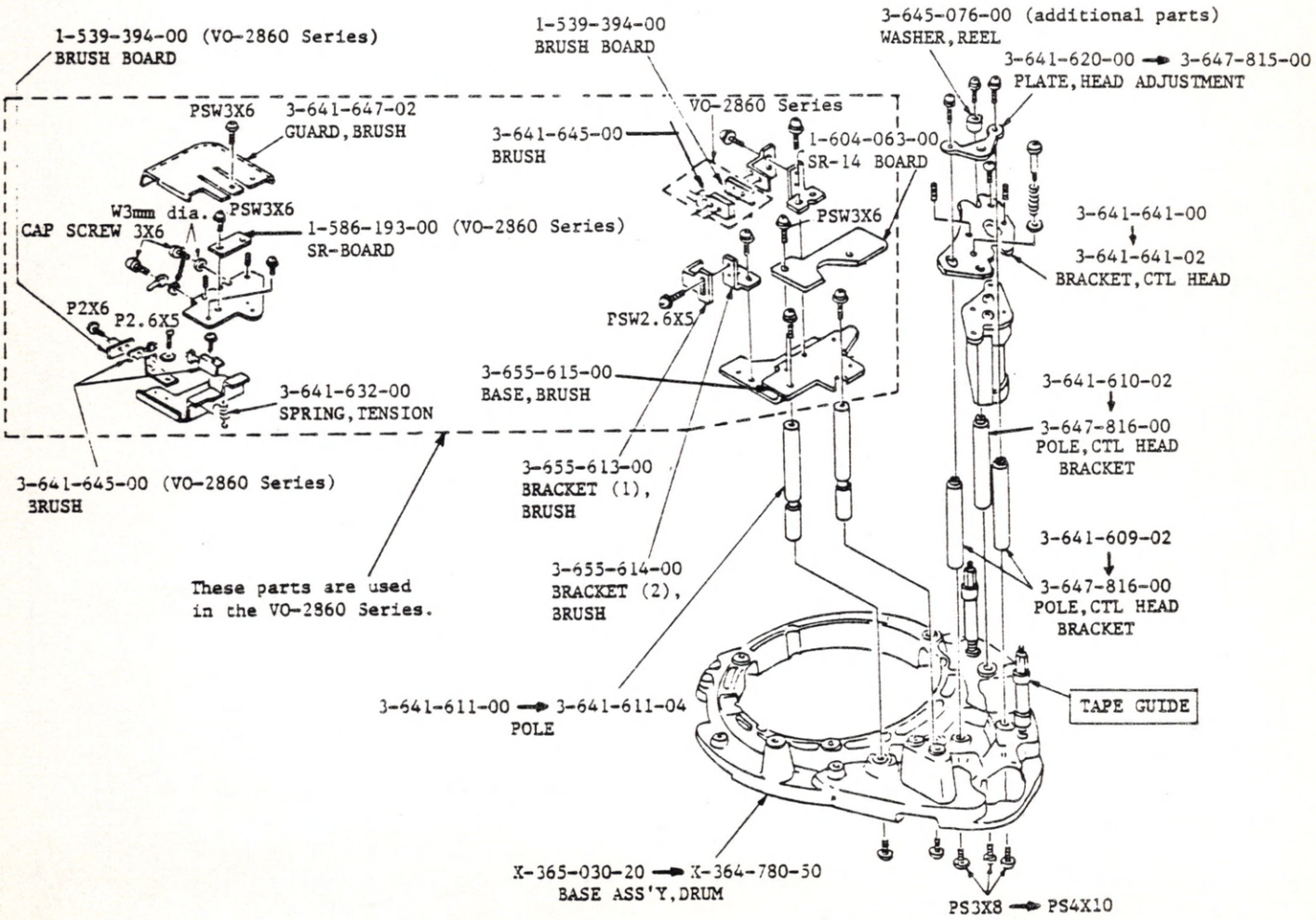
Ref: 1. VTRW 80-115
2. VTRW 80-125

2. Applicable to following models and serial numbers.

LVO-7000(USA):	10391 and higher	LVO-7000(CND):	10031 and higher
TVO-9000(USA):	30031 and higher	TVO-9000(CND):	20076 and higher
VO-2610(USA):	25591 and higher	VO-2610(CND):	11801 and higher
VO-2611(USA):	10571 and higher	VO-2611(CND):	20131 and higher
VO-2630(AEP):	49201 and higher		
VO-2800(USA):	16451 and higher	VO-2800(CND):	20651 and higher
VO-2860A(USA):	12771 and higher	VO-2860A(CND):	20201 and higher
VP-2010(USA):	19731 and higher	VP-2010(CND):	11351 and higher
VP-2011(USA):	14951 and higher	VP-2011(CND):	20501 and higher
VP-2260(USA):	12831 and higher	VP-2260(CND):	10301 and higher
VP-2030(AEP):	42301 and higher		

In order to change the TAPE GUIDE position, the DRUM BASE ASS'Y has been changed in units above. Also changed are the BRUSH, CTL HEAD BRACKET, AND HEAD ADJUSTMENT PLATE.

The new HEAD ADJUSTMENT PLATE (3-647-815-00) and CTL HEAD BRACKET (3-641-641-02) are interchangeable with the former parts, but the former parts can not be substituted for the new.
Other parts are not interchangeable between old and new.



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Date: February 1981 **No.** 83

Model: DXC-1800

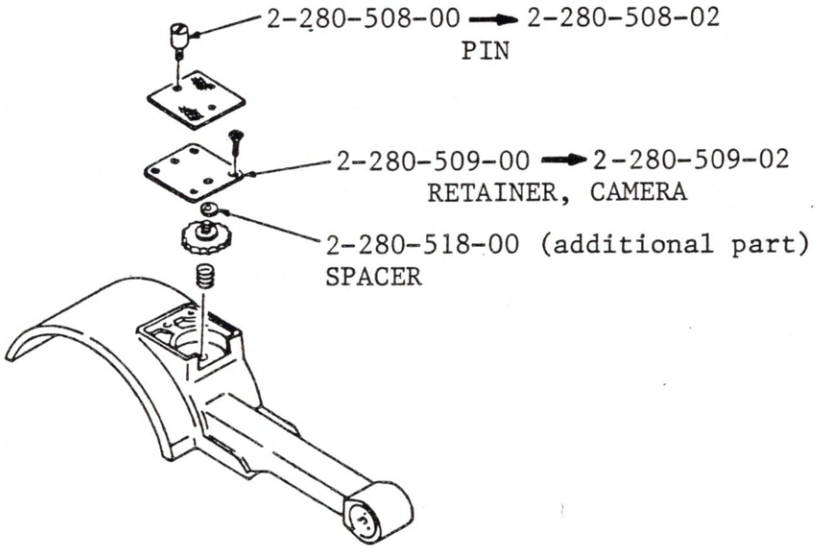
Subject: IMPROVED MOUNTING WITH VCT-8

Serial numbers modified at factory:
DXC-1800(US/CAN): 10601 and higher.

For mounting the DXC-1800 more securely on the VCT-8, the PIN and RETAINER, CAMERA have been changed. Also, a SPACER has been added. See below.

Note the following interchangeability information.

	Part No.	S.N. 10001 to 10600	S.N. 10601 and higher
former	2-280-508-00	NO	NO
new	2-280-508-02	YES	YES
former	2-280-509-00	NO	NO
new	2-280-509-02	YES	YES
new	2-280-518-00	YES	YES



Ref: VTRW 80-127

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Date: February 1981 **No.** 84

Model: SLP-300, -303, SLO-323, -323MD

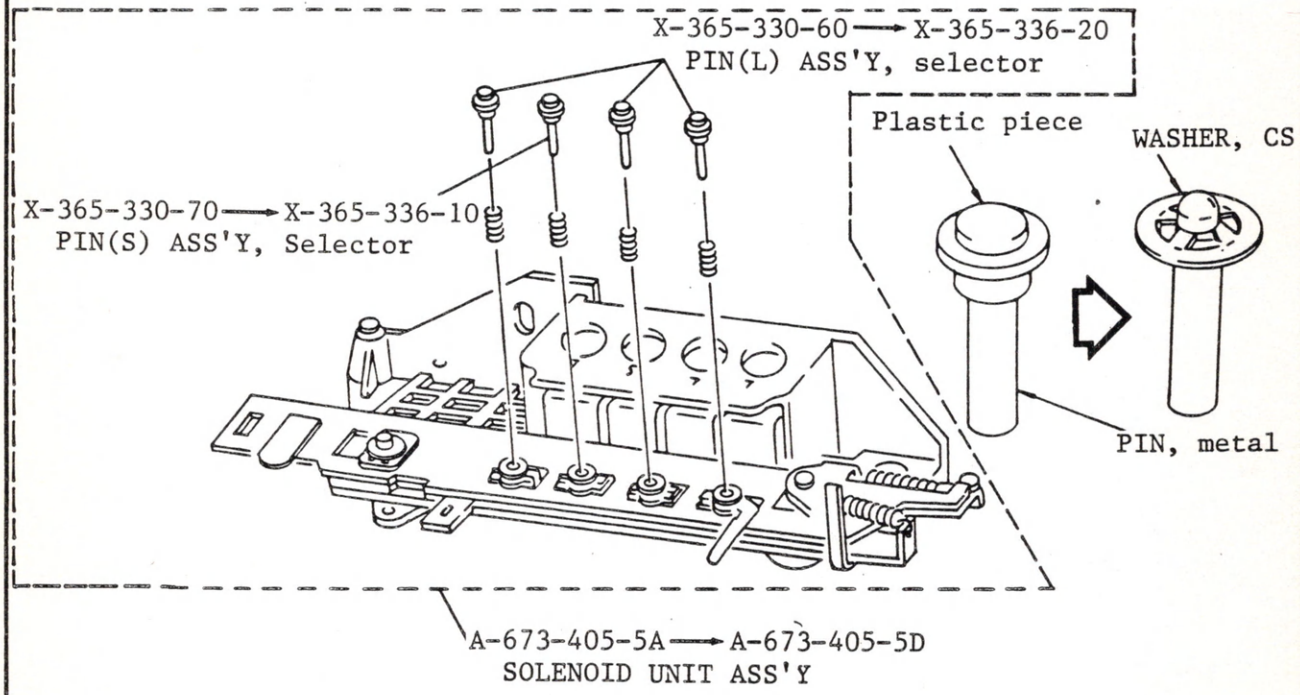
Subject: NEW PART, "SELECTOR PIN ASS'Y"

This change has been implemented in units with the following serial numbers:

		USA	CND
SLP-300	-	24,301 and higher;	21,401 and higher
SLP-303	-	11,601 and higher;	20,201 and higher
SLO-323	-	15,301 and higher;	20,701 and higher
SLO-323MD	-	10,201 and higher;	
SLO-383	-	all machines	

NOTE: SELECTOR PIN (S) ASS'Y is not used in the SLO-383.

After heavy use, the plastic cap of the SELECTOR PIN ASS'Y may separate from the metal pin. Therefore, the SELECTOR PIN ASS'Y has been changed to a more durable unit.



Ref: VTRW 80-112

4. Use of new and former parts.

	parts number	Serial number of machines SLP-300(USA) --20001 to 24300 SLP-300(CND) --20001 to 21400 SLP-303(USA) --10001 to 11600 SLP-303(CND) --20001 to 20200 SLO-323(USA) --10001 to 15300 SLO-323(CND) --20001 to 20700 SLO-323MD(USA) --10001 to 10200	Serial number of machines SLP-300(USA) --24301 and higher SLP-300(USA) --21401 and higher SLP-303(USA) --11601 and higher SLP-303(CND) --20201 and higher SLO-323(USA) --15301 and higher SLO-323(CND) --20701 and higher SLO-323MD(USA) --10201 and higher
former parts	X-365-330-60	not possible	not possible
new parts	X-365-336-20	possible	possible
former parts	X-365-330-70	not possible	not possible
new parts	X-365-336-10	possible	possible
former parts	A-673-405-5A	not possible	not possible
new parts	A-673-405-5D	possible	possible

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Date: February 1981 **No.** 85

Model: VO-4800

Subject: SY-56 BOARD REPLACEMENT

The A/B suffix of the SY-56 board distinguishes between boards modified to be compatible with PAL/SECAM units and those which are not compatible. Boards with part number A-671-713-9B have been modified in production. To meet the new specification in the /A boards, extend the 10P connector wire rod between the SY-49 and the older SY-56 board (P.N. A-671-713-9A), by 15mm.

The older SY-56 Boards are found on units with the following serial numbers:

VO-4800 (USA) 10,001 to 12,300;
VO-4800 (CND) 20,001 to 20,250.

Ref: VTRW 80-121

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Date: February 1981 **No.** 86

Model: VO-1600,-1800; VP-1000,-1200

Subject: AUTO STOP DETECTOR

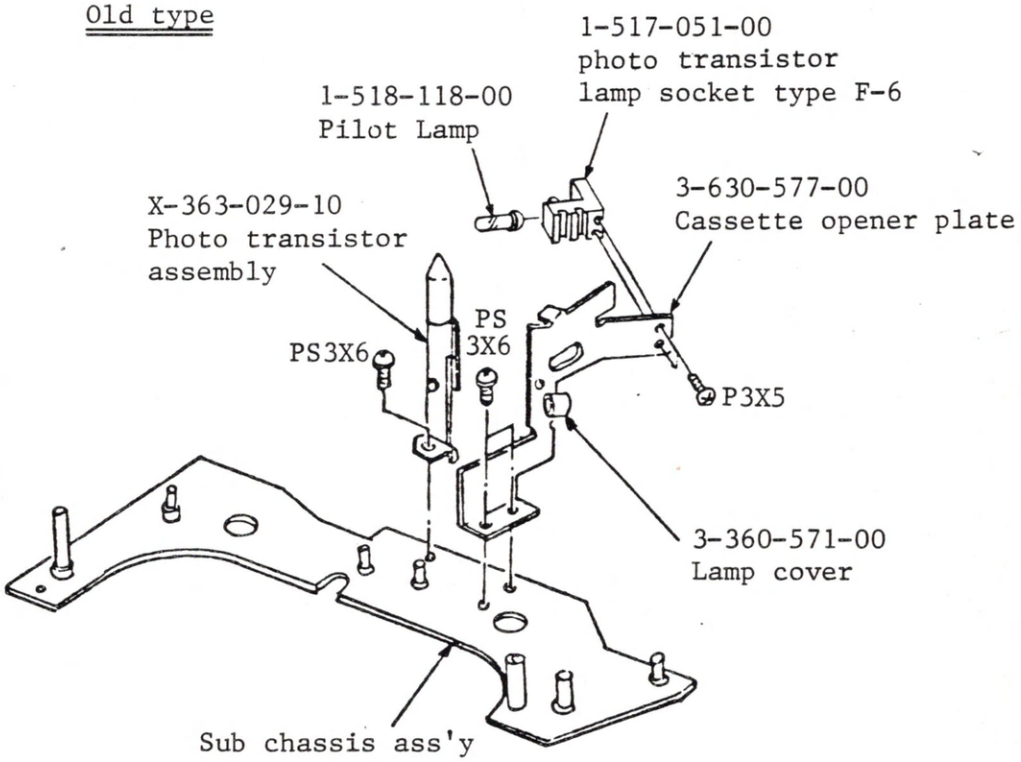
Applicable to all VO/VP-1000 series U-matics
(Supersedes ECN-73)

The mounting position and shape of the pilot lamp and the cassette opener plate have been changed to improve the auto stop action. Note that there is no interchangeability between former and new parts.

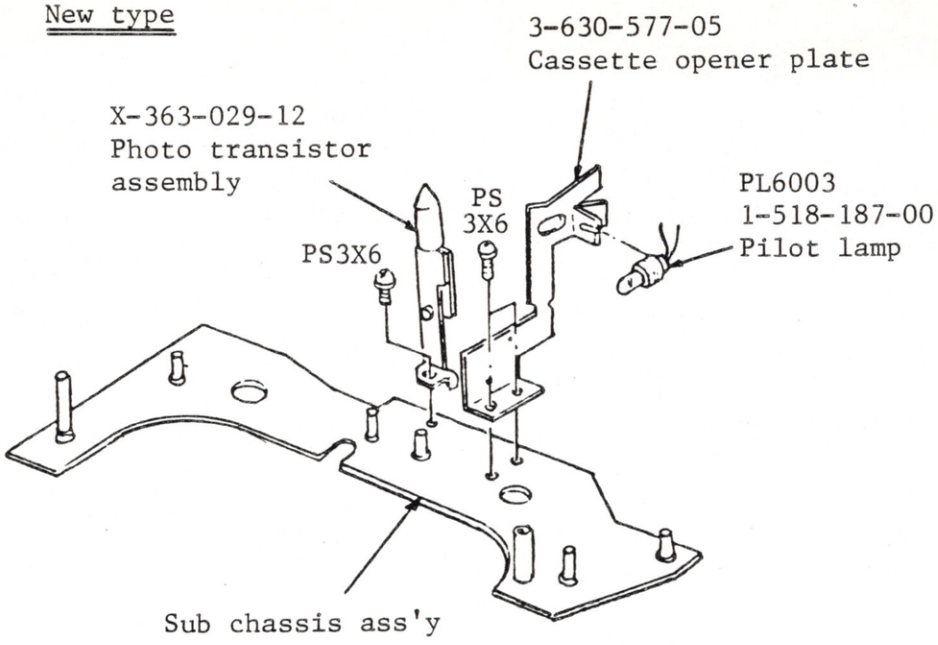
Parts:

	FORMER	NEW
Phototransistor ass'y:	X-3630-291-0	X-3630-291-2
Cassette opener plate:	3-630-577-00	3-630-577-05
Pilot lamp:	1-518-118-00	1-518-187-00
Lamp cover:	3-630-571-00	—
Lamp socket:	1-517-051-00	—
Screw ⊕ PS 3X5 (2):	—	—

Old type



New type


3-630-577-05
Cassette opener plate
X-363-029-12
Photo transistor
assembly
PS
3X6
PS3X6
PL6003
1-518-187-00
Pilot lamp
Sub chassis ass'y

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Date: June, 1981 **No.** 87

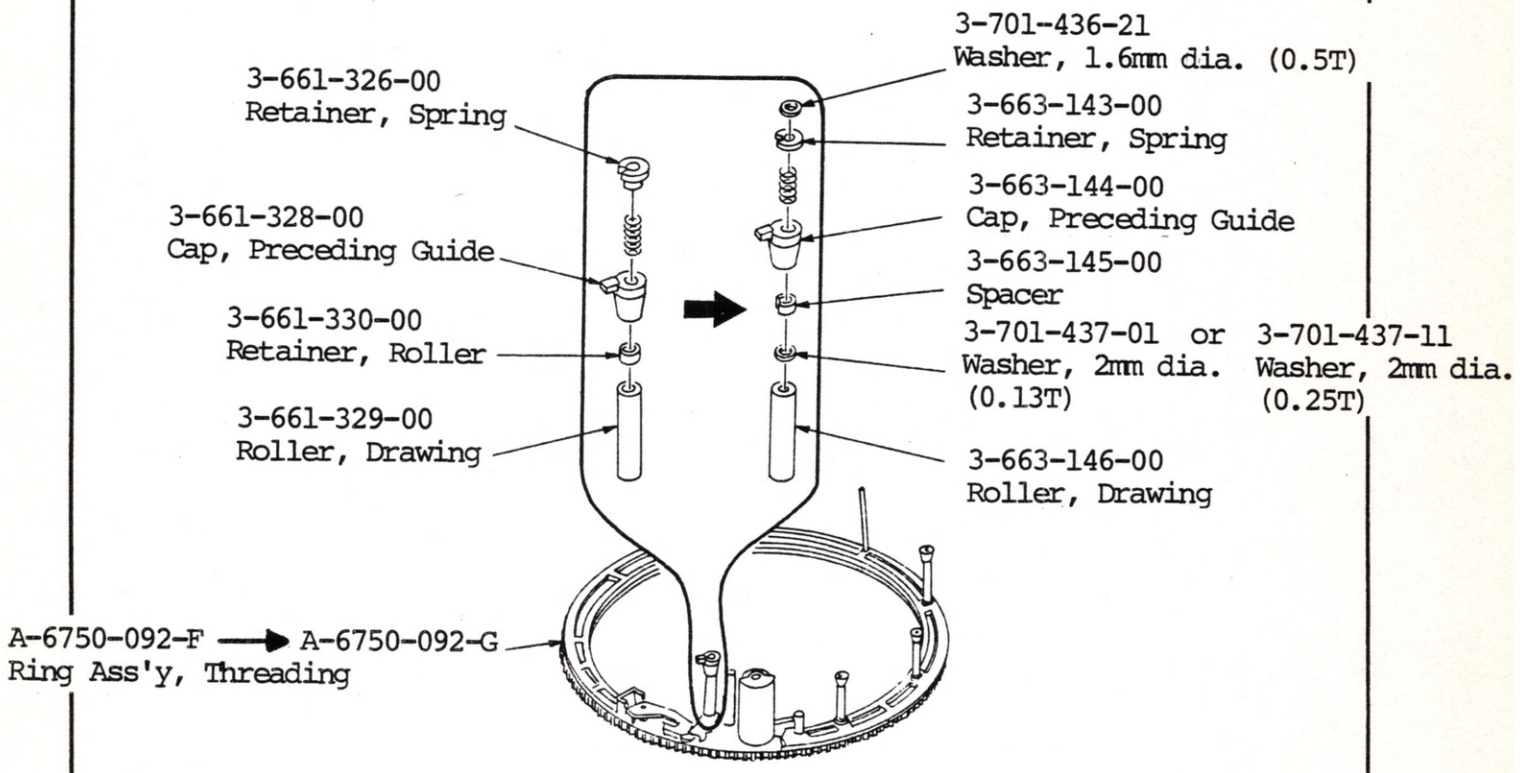
Model: VO-4800

Subject:

CHANGE OF THE DRAWING ROLLER

The DRAWING ROLLER has been changed in order to make its replacement easier.

(old) (new)



NOTE: Check to insure that the thrust clearance of the DRAWING ROLLER meets the required specification.

SPEC: 0.2-0.3mm

Adjustment Procedure:
Adjust the clearance by adding or removing a washer (2mm dia.).

Ref: VTRW-81-1005

Factory modified serial numbers:

15051 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-15050	15051 and higher
old part	3-661-326-00	YES	NO
new part	3-663-143-00	NO	YES
old part	3-661-328-00	YES	NO
new part	3-663-144-00	NO	YES
old part	3-661-330-00	YES	NO
new part	3-663-145-00	NO	YES
old part	3-661-329-00	YES	NO
new part	3-663-146-00	NO	YES
new part	3-701-436-21	NO	YES
new part	3-701-437-01	NO	YES
	3-701-437-11	NO	YES
old part	A-6750-092-F	YES	NO
new part	A-6750-092-G	YES	YES

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Date: June, 1981 **No.** 88

Model: VO-3800, VO-4800, SL-300 series

Subject:

CHANGE OF MICRO SWITCH

The MICRO SWITCH utilized in the models listed above has been improved to increase their reliability. The new MICRO SWITCH is not completely interchangeable with some of the old switches. Therefore, the SWITCH BRACKET ASS'Y has also been changed.

The following table is a list of the changed parts.

	former	new
Micro Switch	1-514-722-XX	1-553-577-11
	1-516-096-XX	1-553-578-00
	1-516-135-00	1-553-650-11
	1-516-325-00	1-553-661-00
	1-516-401-00	1-553-577-21
	1-516-544-00	1-553-571-00
	1-516-544-21	1-553-650-21
	1-516-786-XX	1-553-577-11
Bracket Ass'y, Switch	X-3661-022-0	X-3661-022-2
	X-3661-023-0	X-3661-023-2

Only new parts will now be supplied. Therefore, when ordering these MICRO SWITCHes please refer to the table above.

Factory modified models and serial numbers:

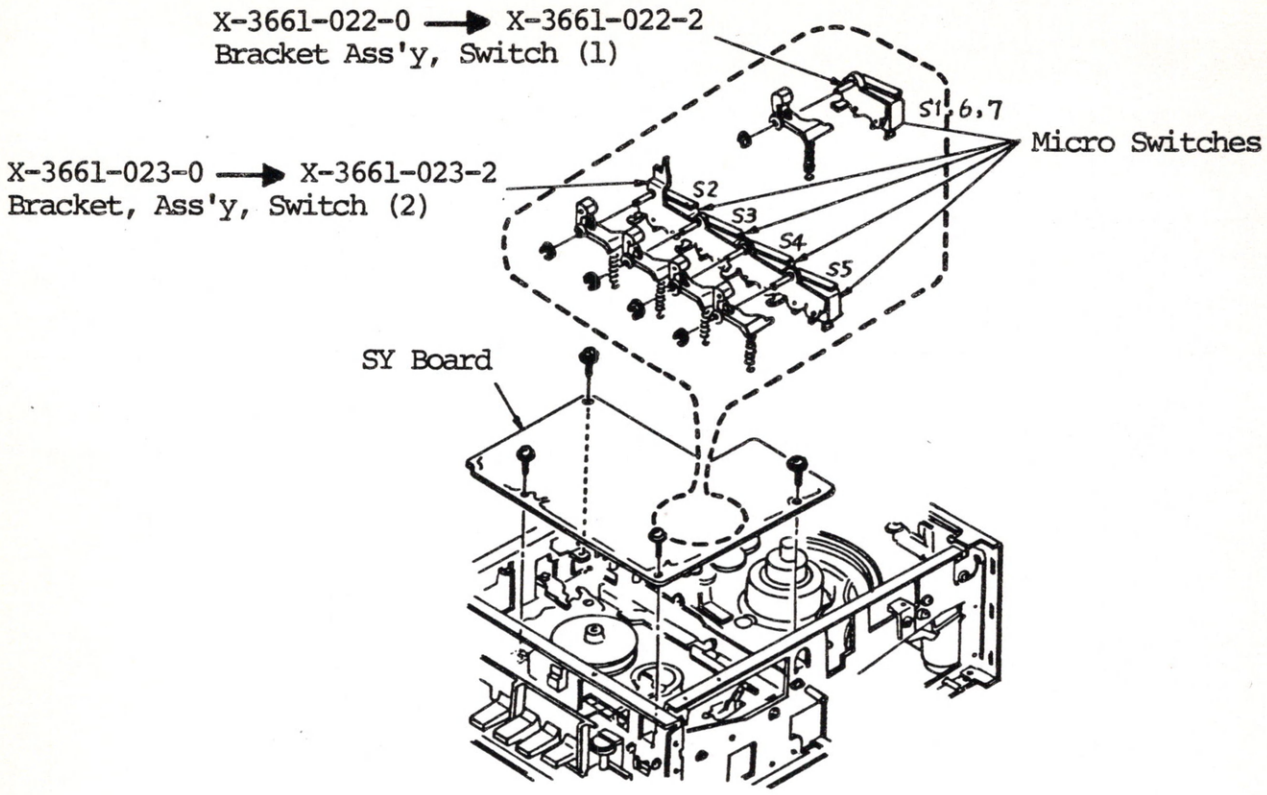
VO-3800.....16831 and higher
*VO-4800.....12651 and higher
SLP-300.....24301 and higher
SLP-303.....11601 and higher
SLO-323.....14701 and higher
SLO-323MD...10201 and higher
SLO-340.....18701 and higher
SLO-383.....10551 and higher

*There are two methods for replacing the MICRO SWITCHes (S1 to S7) which are mounted on the SY-49 Board of the VO-4800 with Serial numbers 12650 and lower.

Replacement Method (1)

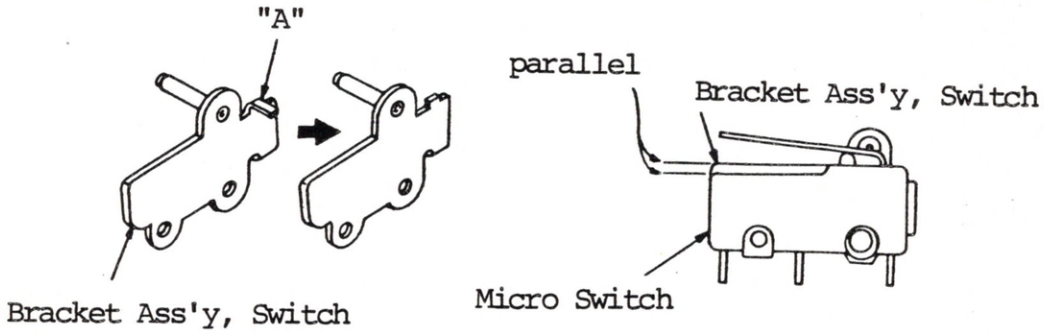
Replace the SWITCH BRACKET ASS'Y with a new part, and then install the new MICRO SWITCH.

Ref: VTRW-81-1006



Replacement Method (2)

In order to install a new MICRO SWITCH in the old SWITCH BRACKET ASS'Y, (1) cut part "A" on the SWITCH BRACKET ASS'Y, and (2) install the new MICRO SWITCH so that it is parallel to the SWITCH BRACKET ASS'Y, as shown below.



The following table is a list of the old and new part numbers of the MICRO SWITCHes located on the SY-49 Board.

Reference No.	SY-49 board/VO-4800 series	
	former part	new part
S1	1-514-722-XX	1-553-577-11
S2	1-516-544-00	1-553-571-00
S3	1-514-722-XX	1-553-577-11
S4	1-514-722-XX	1-553-577-11
S5	1-514-722-XX	1-553-577-11
S6	1-516-544-00	1-553-571-00
S7	1-514-722-XX	1-553-577-11

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-12650	12651 and higher
old part	X-3661-022-0	YES	NO
new part	X-3661-022-2	YES	YES
old part	X-3661-023-0	YES	NO
new part	X-3661-023-2	YES	YES
old part	1-514-722-XX	YES	NO
new part	1-553-577-11	YES (1)	YES
old part	1-516-544-00	YES	NO
new part	1-553-571-00	YES (1)	YES

NOTE: (1) See Replacement Method (2).

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Date: June, 1981 **No.** 89

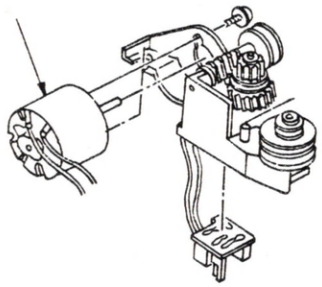
Model: SLO-300 series, SLP-300 series

Subject:

CHANGE OF THREADING MOTOR

The THREADING MOTOR has been changed. In order to utilize the new part, make the modification shown below.

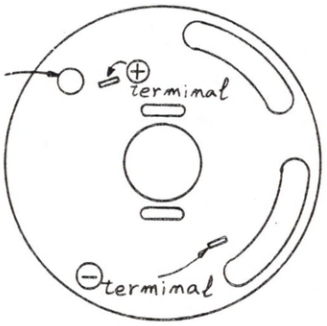
1-541-126-00 ⟶ 1-541-163-00
Motor, Threading



NOTE: Bend the ⊖ terminal of the new motor as shown below.



There is a depression here.



Ref: VTRW-81-1007

Factory modified models and serial numbers:

SLO-323.....15301 and higher
SLO-323MD...10201 and higher
SLO-340.....19201 and higher
SLO-383.....10861 and higher
SLP-300.....24801 and higher
SLP-303.....11807 and higher

	Part number	Model/Serial numbers	
		SLO-323/10001-15300	SLO-323/15301 and higher
		SLO-323MD/10001-10200	SLO-323MD/10201 and higher
		SLO-340/10001-19200	SLO-340/19201 and higher
		SLO-383/10001-10860	SLO-383/10861 and higher
		SLP-300/20001-24800	SLP-300/24801 and higher
		SLP-303/10001-11806	SLP-303/11807 and higher
old part	1-541-126-00	YES	YES
new part	1-541-163-00	YES	YES

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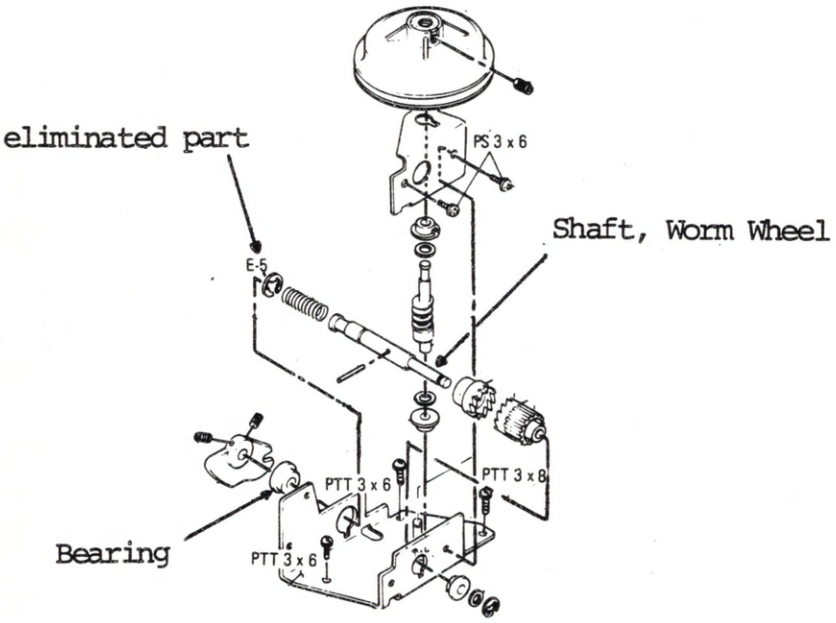
Date: June, 1981 **No.** 90

Model: VO-2800, TVO-9000

Subject:

CHANGE OF THE BEARING AND WORM WHEEL SHAFT

The BEARING and the WORM WHEEL SHAFT have been changed, and the E-WASHER has been eliminated. Therefore, whenever the BEARING or the WORM WHEEL SHAFT is replaced, remove the E-WASHER.



Factory modified models and serial numbers:

VO-2800.....16651 and higher
TVO-9000....30031 and higher

Ref: VTRW-81-1011

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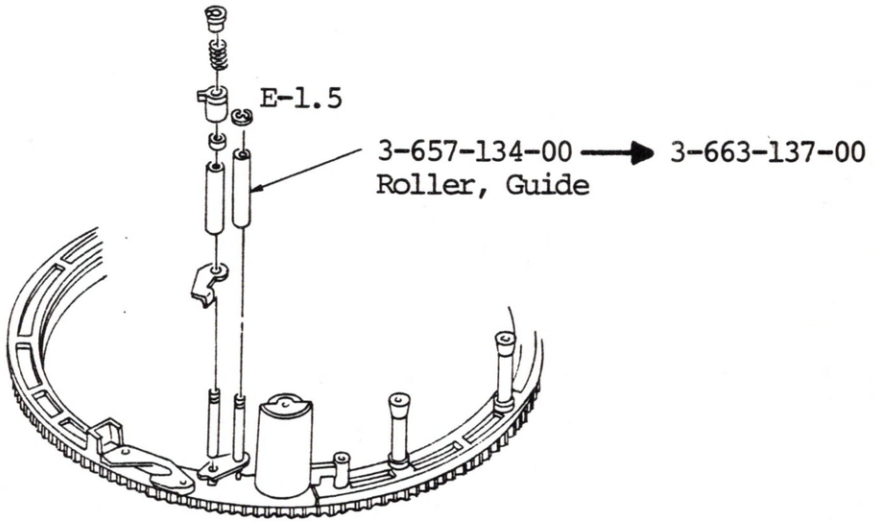
Date: June, 1981 **No.** 91

Model: VO-4800

Subject:

CHANGE OF GUIDE ROLLER

The GUIDE ROLLER has been changed to improve the composite shooting.



Factory modified serial numbers:

13051 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-13050	13051 and higher
old part	3-657-134-00	YES	NO
new part	3-663-137-00	YES	YES

Ref: VTRW-81-1012

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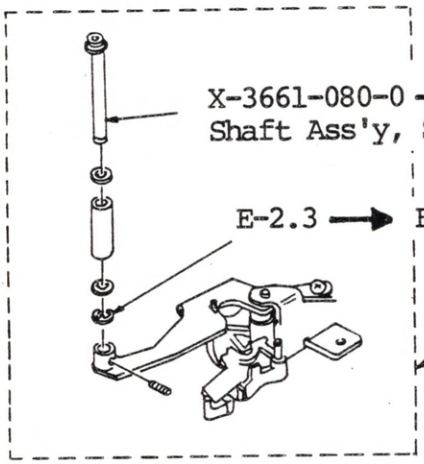
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Date: June, 1981 **No.** 92

Model: VO-4800

Subject: CHANGE OF STR ROLLER SHAFT ASS'Y, TR ARM ASS'Y, AND E-WASHER

The STR ROLLER SHAFT ASS'Y, TR ARM ASS'Y, and E-WASHER have been changed.



Only new STR ROLLER SHAFT ASS'Y and TR ARM ASS'Y's will now be supplied as replacement parts. Therefore, when replacing them, you must use the new "E-2.0" E-WASHER.

Factory modified serial numbers:

15051 and higher

Ref: VTRW-81-1016

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Date: June, 1981 **No.** 93

Model: DXC-1800

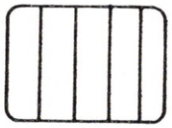
CAMERA

Subject:

DTL LEVEL ADJUSTMENT

If you wish to adjust the DTL LEVEL of the TV picture, please make the changes shown below.

1. H·DTL level adjustment



To reduce the H·DTL LEVEL change R24 and R25.

R24: 10K ohm → 15K ohm (1-246-797-00) or greater.
R25: 8.2K ohm → 12K ohm (1-246-796-00) or greater.

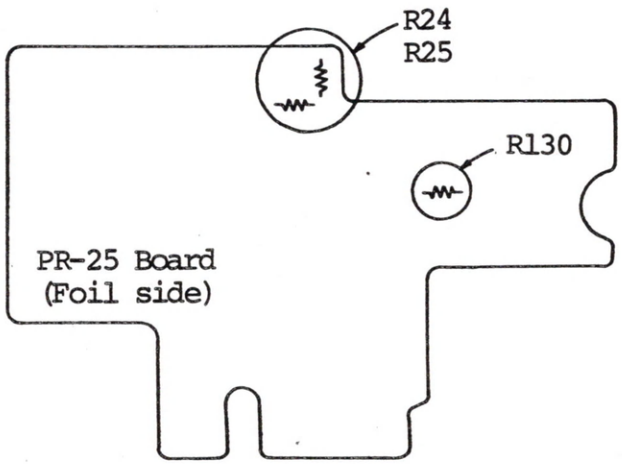
2. V·DTL level adjustment



To reduce the V·DTL LEVEL change R130.

R130: 3.3K ohm → 4.7K ohm (1-246-791-00) or greater.

Location of R24, R25, and R130 on the PR-25 Board.



Ref: VTRW-81-1017

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Date: June, 1981 **No.** 94

Model: SLO-383

Subject:

MODIFICATION OF FLICKER

When the SLO-383 is connected to a TV equipped with a tuner or to a tuner Timer by means of a TV 8P multi-cable, if flickering occurs in the E-E or REC/PB mode on the monitor screen, then perform the following modification:

> Connect the No. 2 pin of CN404 to the ground on the YC-1 Board with a short lead wire. (This can best be done by shorting both ends of R104.)

Factory modified serial numbers:

10300 and higher

Ref: VTRW-81-1018

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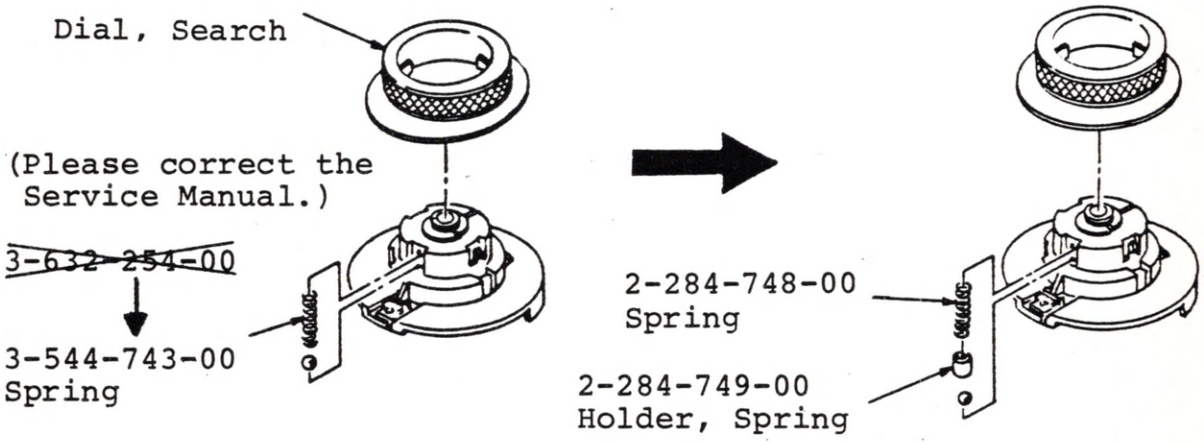
Date: June, 1981 **No.** 95

Model: RM-440

Subject:

CHANGE OF SPRING AND PART NUMBER CORRECTION

The SPRING has been changed in order to insure greater awareness of the position on the SEARCH DIAL, when the DIAL is rotated. A SPRING HOLDER has also been added.



Factory modified serial numbers:

10251 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-10250	10251 and higher
old part	3-544-743-00	YES	NO
new part	2-284-748-00	YES (1)	YES
new part	2-284-749-00	YES (2)	YES

NOTE: (1) Interchangeable, but must be used with 2-284-749-00.
(2) Interchangeable, but must be used with 2-284-748-00.

Ref: VTRW-81-1019

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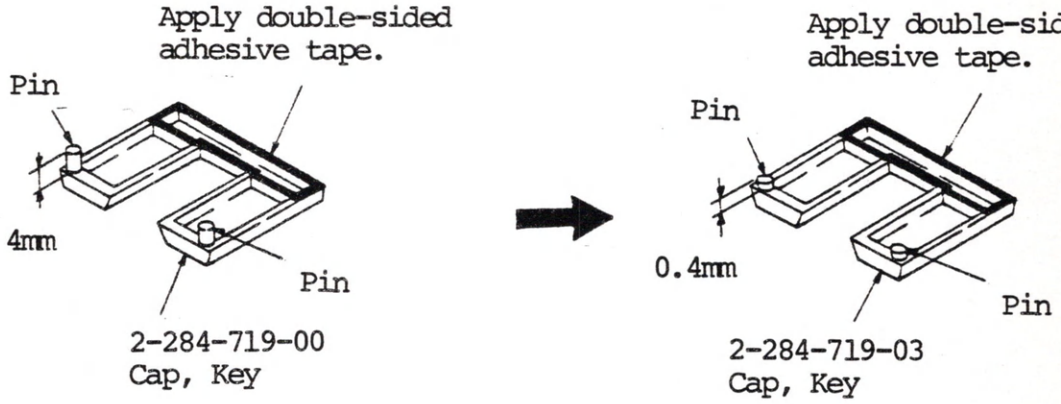
Date: June, 1981 **No.** 96

Model: RM-440

Subject:

CHANGE OF KEY CAP

The KEY CAP has been changed to allow its installation without the need for making a hole in the panel.



Factory modified serial numbers:

10751 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-10750	10751 and higher
old part	2-284-719-00	YES	YES (2)
new part	2-284-719-03	YES (1)	YES (1)

NOTE: (1) Interchangeable, but you must apply double-sided adhesive tape.
(2) Interchangeable; however, you must cut the pins and apply double-sided adhesive tape.

Ref: VTRW-81-1026

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Date: June, 1981 **No.** 97

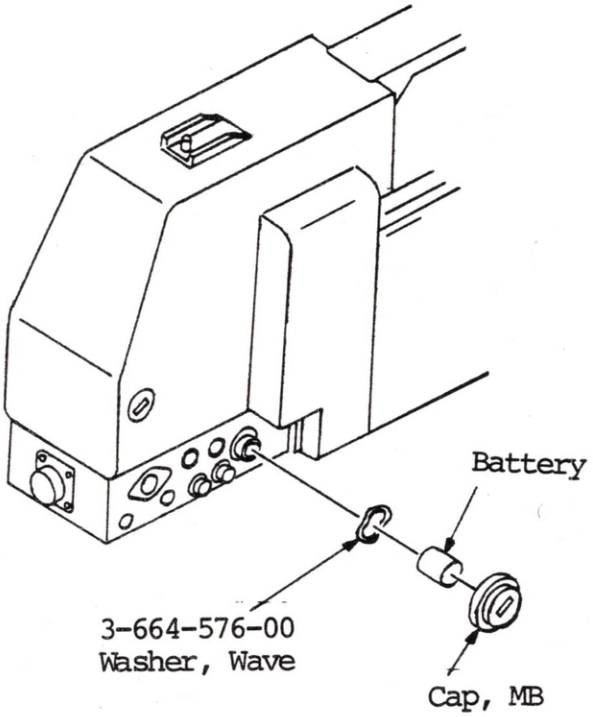
Model: DXC-1800

CAMERA

Subject:

ADDITION OF WAVE WASHER

A WAVE WASHER has been added in order to insure firmer contact between the MB CAP and the CHASSIS. This WAVE WASHER is useable on <u>all</u> DXC-1800s.



Factory modified serial numbers:

10851 and higher

Ref: VIRW-81-1033

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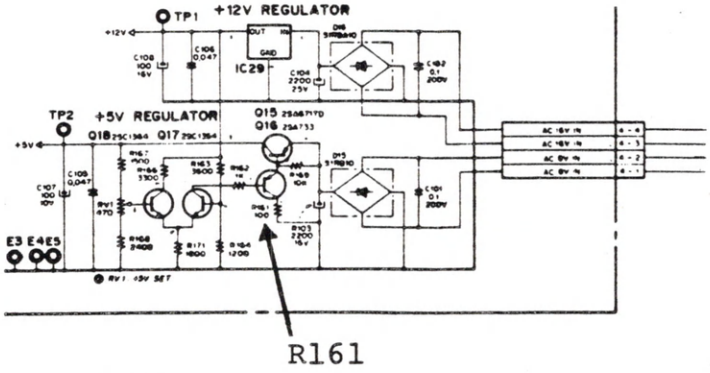
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Date: June, 1981 **No.** 98

Model: VRS-100

Subject:
CIRCUIT IMPROVEMENTS

(1) To improve the regulation of the 5 Volts regulator, change R161 on the SR-11 Board from 100 ohms to 51 ohms.

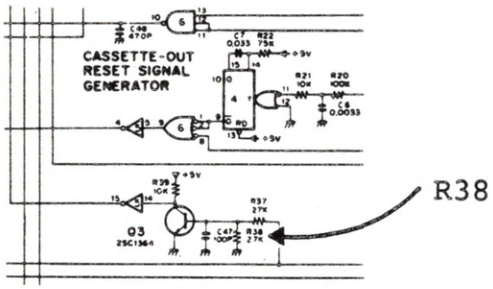


R161
100Ω ⟶ 51Ω R, CARBON 1/4W 5%
1-246-442-00

Factory modified serial numbers:

10301 and higher
(EXCEPT: 90001-90020)

(2) In order to stabilize the circuit's operation against inherent noise, change R-38 on the SR-11 Board from 27K ohms to 12K ohms.



R38
27kΩ ⟶ 12kΩ (R, CARBON 1/4W 5%
1-246-499-00)

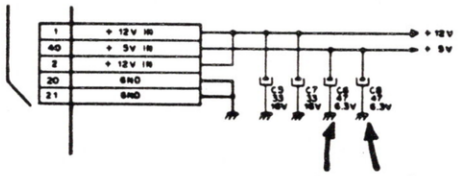
Ref: VTRW-81-1039

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Factory modified serial numbers:

10301 and higher
(EXCEPT: 90001-90020)

(3) The values of C6 and C8 on the MP-9 Board have also been changed.



MP-9

Both C6, C8
47/6.3V ⟶ 33/16 (C, ELECT 1-123-318-00)

Factory modified serial numbers:

10301 and higher
(EXCEPT: 90001-90020)

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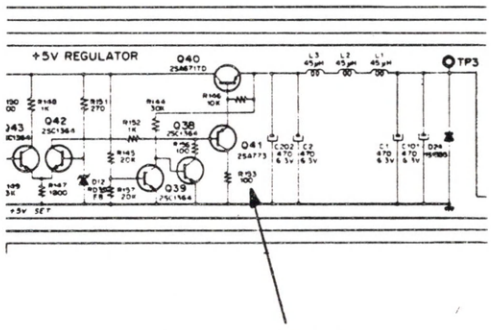
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Date: June, 1981 **No.** 99

Model: VRC-100

Subject: CIRCUIT IMPROVEMENTS

(1) To improve the regulation of the 5 Volts regulator, change R153 on the CR-14 Board from 100 ohms to 51 ohms.



R153

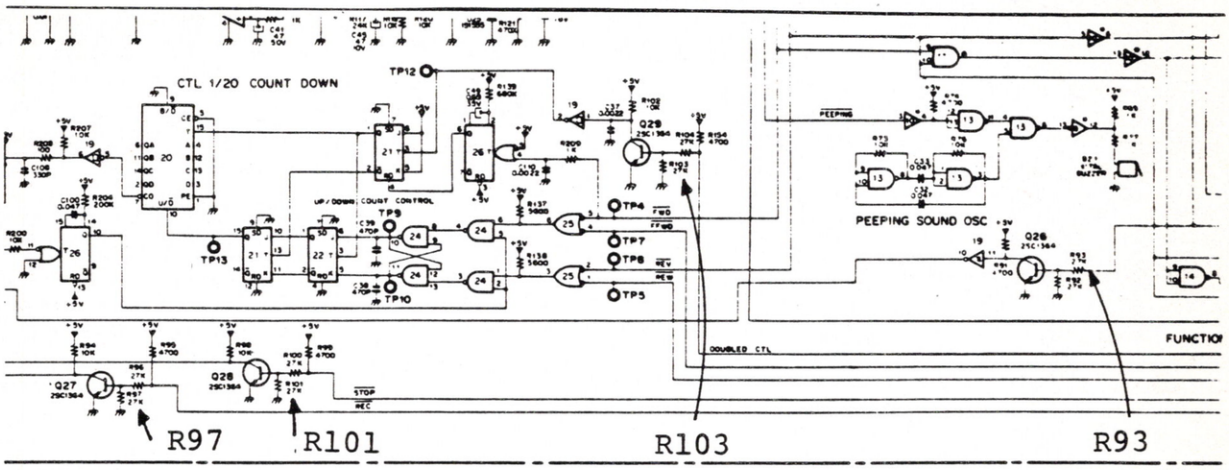
R153 100Ω ⟶ 51Ω (R, CARBON 1/4W 5% 1-246-442-00)

Factory modified serial numbers:

10091 and higher

(2) In order to stabilize the circuits operation against inherent noise, change R93, R97, R101, and R103 on the CR-14 Board from 27K ohms to 12K ohms.

Ref: VTRW-81-1040



All of R93, R97, R101, R103

27kΩ ⟶ 12kΩ (R, CARBON 1/4W 5% 1-246-499-00)

Factory modified serial numbers:

10091 and higher

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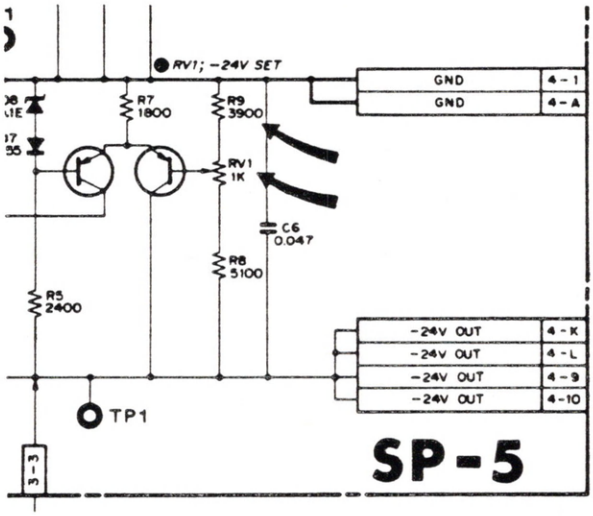
Date: July, 1981 **No.** 100R

Model: VRP-100

Subject:

IMPROVED ADJUSTABILITY OF THE -24 VOLTS REGULATOR

The following parts on the SP-5 Board have been changed.



R9
3900Ω ⟶ 3300Ω
R, CARBON 1/4W 5%
1-246-485-00

RV1
1kΩ ⟶ 2200Ω
R, VAR, METAL
1-224-250-XX

Factory modified serial numbers:

10051 and higher

Ref: VTRW-81-1041

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Date: June, 1981 **No.** 101

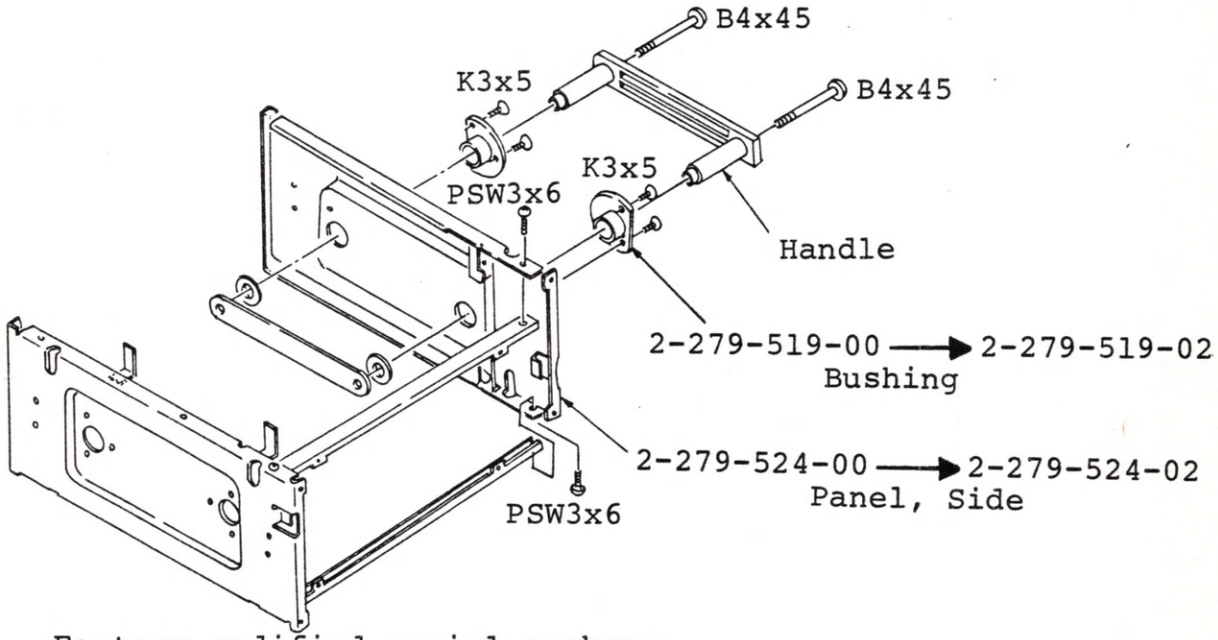
Model: CCU-1800

CAMERA

Subject:

CHANGE OF THE BUSHING AND THE SIDE PANEL

The BUSHING and the SIDE PANEL have been changed in order to make the movement of the HANDLE smoother.



Factory modified serial numbers:

11101 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-11100	11101 and higher
old part	2-279-519-00	YES	NO
new part	2-279-519-02	YES (1)	YES
old part	2-279-524-00	YES	NO
new part	2-279-524-02	YES	YES

NOTE: (1) Must be used together with 2-279-524-02.

Ref: VTRW-81-1042

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Date: June, 1981 **No.** 102

Model: DXC-6000

CAMERA

Subject: CHANGE OF PC-BOARD GUIDE, RAIL RETAINER, AND SHIELD PLATE ASS'Y

The PC-BOARD GUIDE, RAIL RETAINER, and SHIELD PLATE ASS'Y have been changed to hold the PC-Boards (PA, VA, AB, SH, DF,etc.) more securely. A COMPRESSION SPRING and HIDE COVER have also been added.

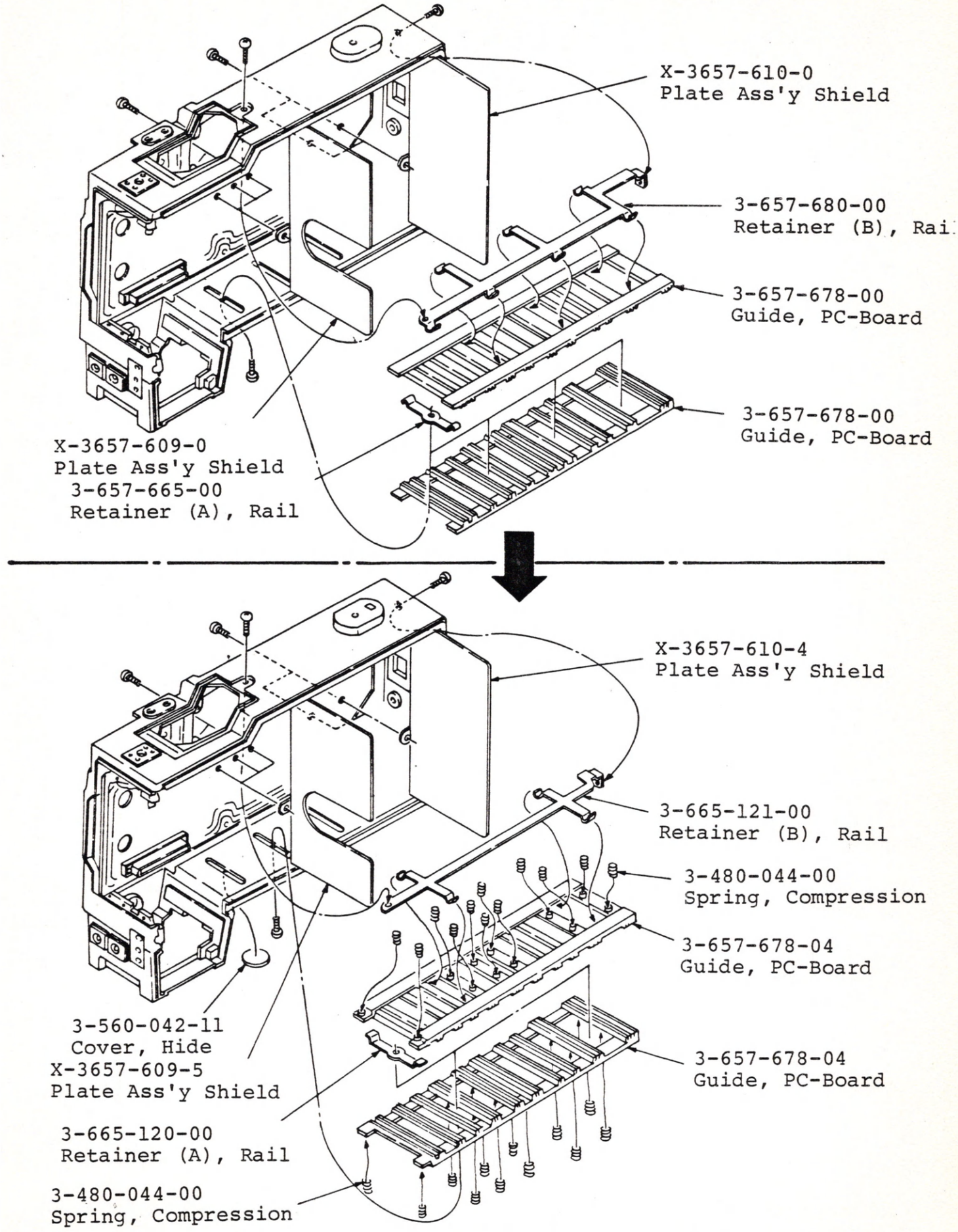
Factory modified serial numbers:

50341 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		50001-50340	50341 and higher
old part	3-657-665-00	YES	NO
new part	3-665-120-00	NO	YES
old part	3-657-680-00	YES	NO
new part	3-665-121-00	NO	YES
old part	3-657-678-00	YES	NO
new part	3-657-678-04	NO	YES
old part	X-3657-610-0	YES	NO
new part	X-3657-610-4	YES	YES
old part	X-3657-609-0	YES	NO
new part	X-3657-609-5	YES	YES
old part	3-480-044-00	NO	YES
new part	3-560-042-11	NO	YES

Ref: VTRW-81-1047


X-3657-610-0
Plate Ass'y Shield
3-657-680-00
Retainer (B), Rai
3-657-678-00
Guide, PC-Board
3-657-678-00
Guide, PC-Board
X-3657-609-0
Plate Ass'y Shield
3-657-665-00
Retainer (A), Rail
X-3657-610-4
Plate Ass'y Shield
3-665-121-00
Retainer (B), Rail
3-480-044-00
Spring, Compression
3-657-678-04
Guide, PC-Board
3-560-042-11
Cover, Hide
X-3657-609-5
Plate Ass'y Shield
3-657-678-04
Guide, PC-Board
3-665-120-00
Retainer (A), Rail
3-480-044-00
Spring, Compression

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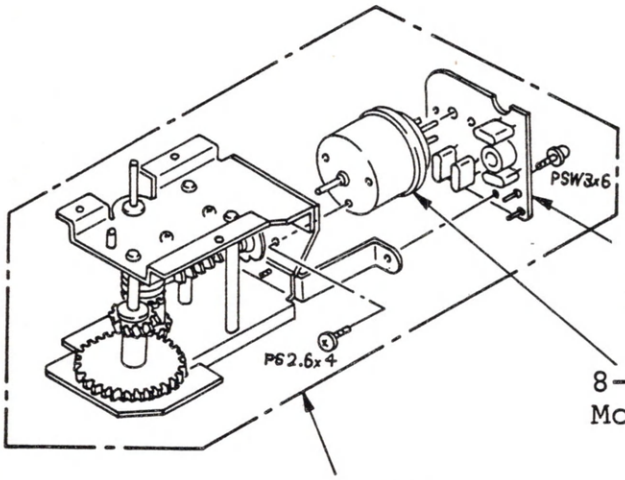
Date: June, 1981 **No.** 103

Model: U-MATIC 2000 series, LVO-7000, TVO-9000

Subject:

CHANGE OF THE THREADING MOTOR AND DM-3 BOARD

The THREADING MOTOR has been changed, and the DM-3 BOARD has been changed to the DM-24 BOARD.



1-584-424-00 DM-3 Board → 1-604-619-00 DM-24 Board

8-834-016-02 Motor, Threading → 8-835-053-11

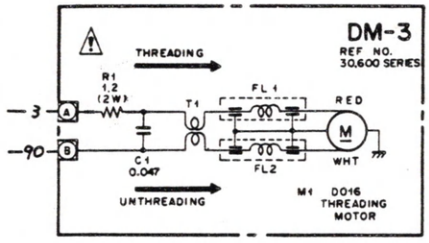
A-6750-034-A Box Ass'y, Gear → A-6750-129-A

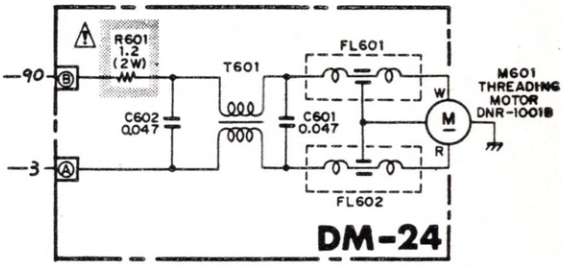
Factory modified models and serial numbers:

LVO-7000.....10391 and higher	VO-2860A....14011 and higher
TVO-9000.....30031 and higher	VP-2010.....19731 and higher
VO-2610.....28091 and higher	VP-2011.....16351 and higher
VO-2611.....10921 and higher	VP-2260.....13301 and higher
VO-2800.....16851 and higher	

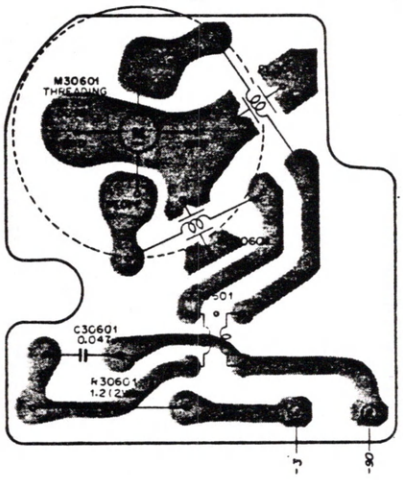
Ref: VTRW-81-1048

OLD	NEW
DM-3 BOARD	DM-24 BOARD

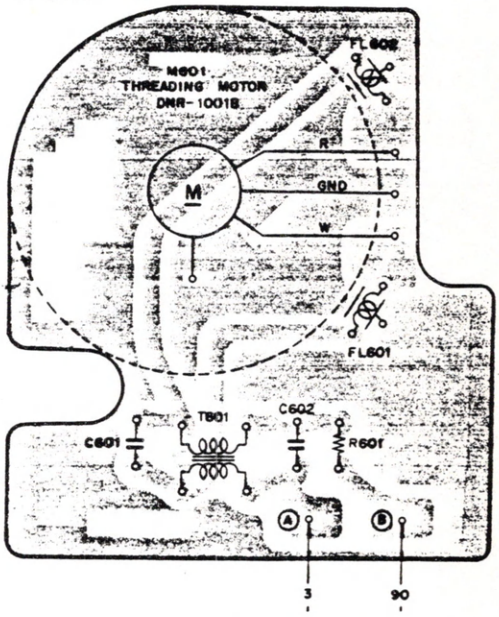




FOIL SIDE
DM-3



DM-24
FOIL SIDE



	1-584-424-00	PRINTED CIRCUIT BOARD "DM-3"
C601	1-101-006-00	CERAMIC 0.047 10% 50V
FL601	1-231-191-00	FEED THROUGH
FL602	1-231-191-00	FEED THROUGH
M601	8-834-016-02	D-016 "THREADING"
⚠R601	1-207-907-00	WIREWOUND 1.2 10% 2W
T601	1-427-265-00	NOISE FILTER

	1-604-619-00	PRINTED CIRCUIT BOARD "DM-24"
C601	1-161-059-00	CERAMIC 0.047 10% 50V
C602	1-161-059-00	CERAMIC 0.047 10% 50V
FL601	1-235-056-00	LINE FILTER
FL602	1-235-056-00	LINE FILTER
M601	8-835-053-11	DNR-1001B "THREADING"
⚠R601	1-207-907-00	WIREWOUND 1.2 10% 2W
T601	1-427-265-00	NOISE FILTER

The following table indicates the interchangeability of the old and new parts.

	Part number	Model/Serial numbers	
		LVO-7000/10390 and lower	10391 and higher
		TVO-9000/30030 and lower	30031 and higher
		VO-2610 /28090 and lower	28091 and higher
		VO-2611 /10920 and lower	10921 and higher
		VO-2800 /16850 and lower	16851 and higher
		VO-2860A/14010 and lower	14011 and higher
		VP-2010 /19730 and lower	19731 and higher
		VP-2011 /16350 and lower	16351 and higher
		VP-2260 /13300 and lower	13301 and higher
old part	A-6750-034-A	YES	NO
new part	A-6750-129-A	YES	YES
old part	8-834-016-02	YES	NO
new part	8-835-053-11	NO	YES
old part	1-584-424-00	YES	NO
new part	1-604-619-00	NO	YES

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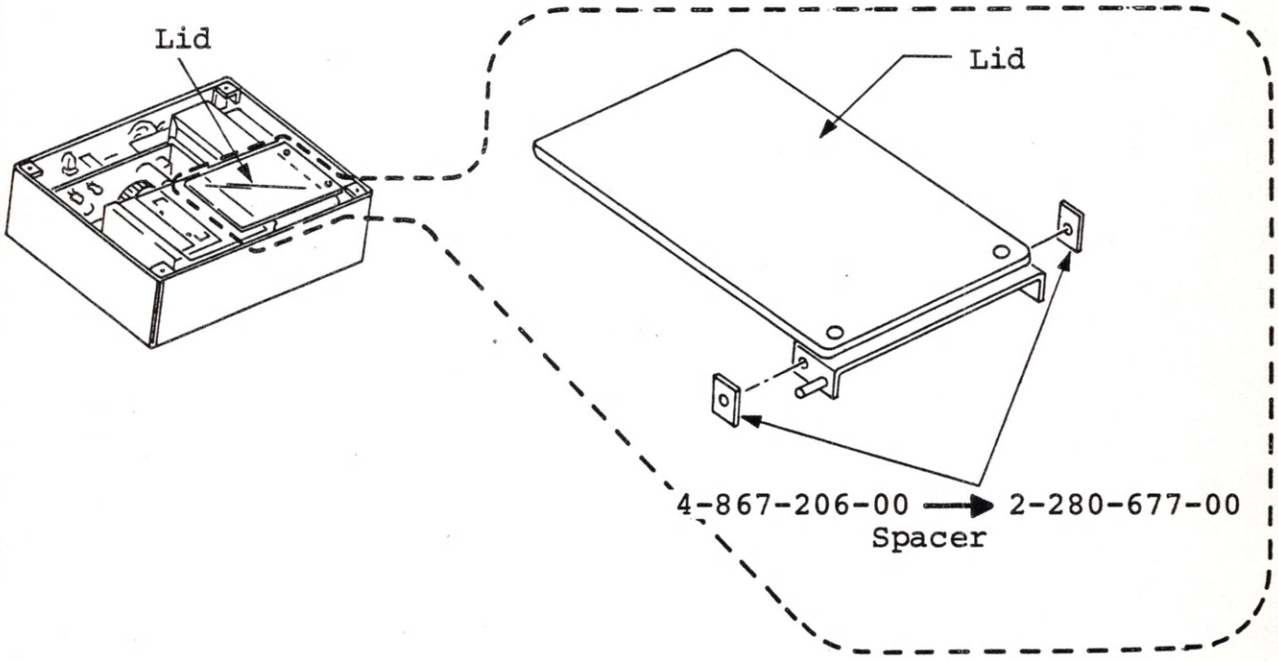
Date: June, 1981 **No.** 104

Model: VRP-100

Subject:

CHANGE OF THE SPACER

The SPACER has been changed in order to improve its durability.



Factory modified serial numbers:

10241 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-10240	10241 and higher
old part	4-867-206-00	NO	NO
new part	2-280-677-00	YES	YES

Ref: VTRW-81-1051

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Date: June, 1981 **No.** 105

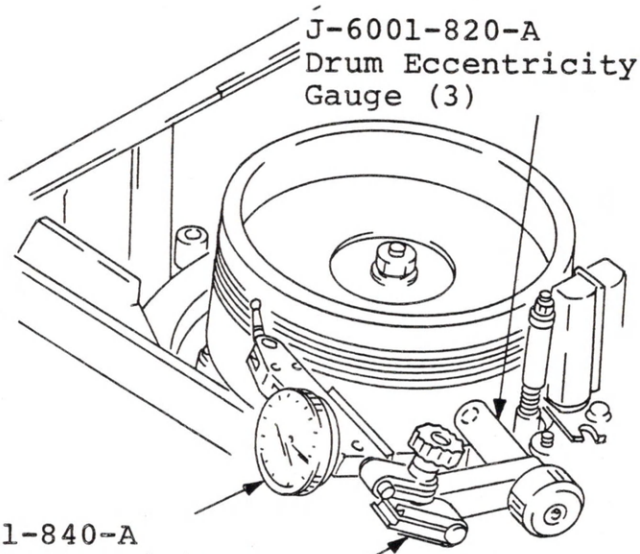
Model: VP-3000

Subject:

CHANGE OF THE DRUM ECCENTRICITY GAUGE MOUNTING POSITION

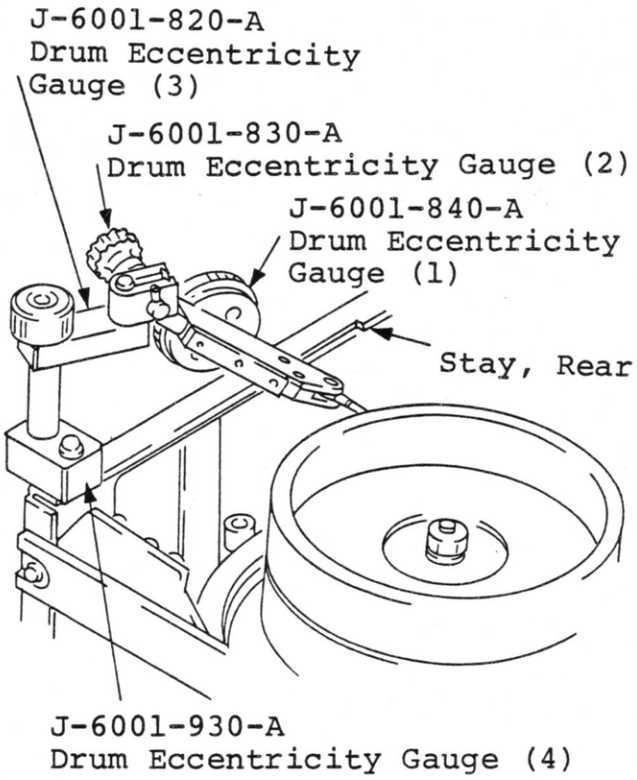
The screw hole provide for the installation of the DRUM ECCENTRICITY GAUGE on the side of the DRUM has been eliminated. Therefore, the installation of the DRUM ECCENTRICITY GAUGE has been changed as shown below.

(OLD)



Ref: VTRW-81-1052

(NEW)


J-6001-820-A
Drum Eccentricity
Gauge (3)
J-6001-830-A
Drum Eccentricity Gauge (2)
J-6001-840-A
Drum Eccentricity
Gauge (1)
Stay, Rear
J-6001-930-A
Drum Eccentricity Gauge (4)

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Date: June, 1981 **No.** 106

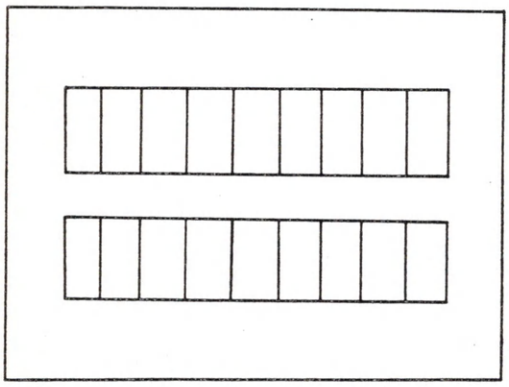
Model: PTB-100/220

Subject:

CHANGE OF THE LOGARITHMIC GRAY SCALE CHART

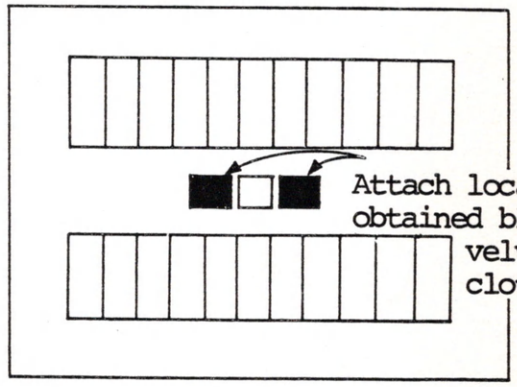
The LOGARITHMIC GRAY SCALE CHART has been changed to improve the gray-tone accuracy. The new part number will end with the letter "B". The difference between the old and the new charts is shown below.

(OLD)
EIA 9-STEP LOGARITHMIC GRAY SCALE



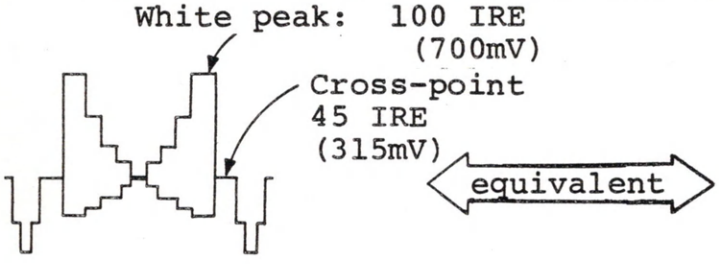
J-6021-880-A

(NEW)
NHK 11-STEP LOGARITHMIC GRAY SCALE

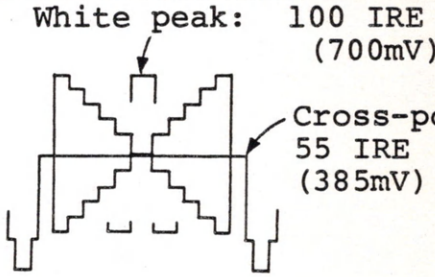


J-6021-880-B

3-tube camera RGB gamma adjustment (Observe video output waveform)



(Using the old chart)



(Using the new chart)

Ref: VTRW-81-1053

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Date: June, 1981 **No.** 107

Model: VO-4800

Subject:

CHANGE OF MOUNTED CIRCUIT BOARDS

The MOUNTED CIRCUIT BOARDS of the VO-4800 have been changed to improve their reliability.

Factory modified serial numbers:

12301 and higher

The following table indicates the interchangeability of the old and new parts.

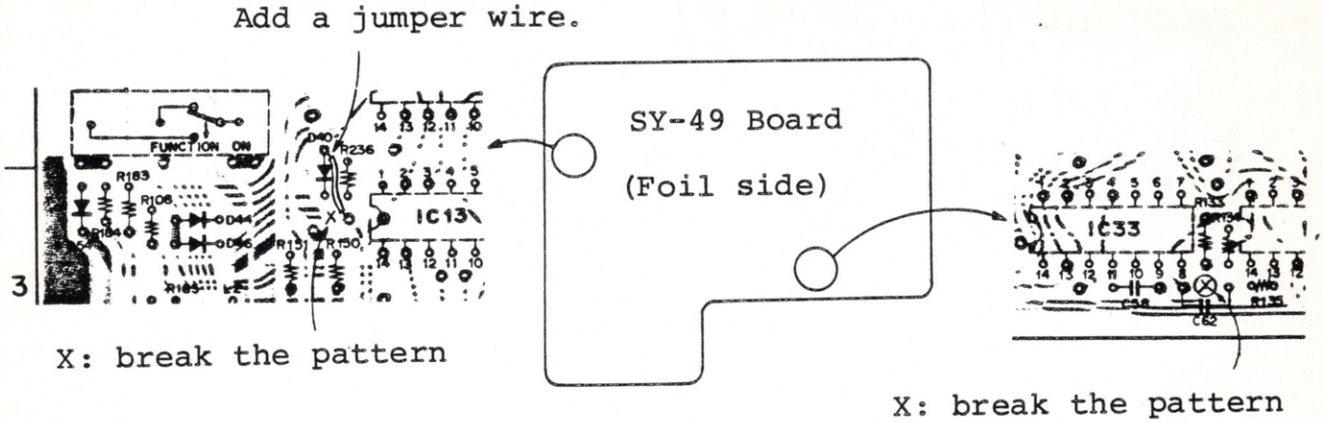
Mounted Board		Part number	Serial numbers	
			10001-12300	12301 and higher
BO-2	old part	A-6713-076-A	YES	NO
	new part	A-6713-076-B	YES	YES
DP-6	old part	A-6717-128-A	YES	NO
	new part	A-6717-128-B	YES	YES
SV-16	old part	A-6715-086-A	YES	NO
	new part	A-6715-086-B	YES	YES
SY-49	old part	A-6717-126-A	YES	NO
	new part	A-6717-126-B	YES (1)	YES
SY-56	old part	A-6717-139-A	YES	NO
	new part	A-6717-139-B	YES (1)	YES

NOTE: (1) The following Modification must be performed on the appropriate board.**

(i) SY-49 BOARD

1. Break the pattern at the two points indicated.
2. Add a 15 mm jumper wire as shown.

Ref: VTRW-81-1063



(ii) SY-56 BOARD

Before replacing the SY-56 Board, extend the wire of the 10 pin connector which connects the SY-49 and SY-56 Boards by 15 mm.

**When BOTH the SY-49 and SY-56 Boards are replaced at the same time, it is not necessary to perform these modifications.

Effected serial numbers:

10001-12300

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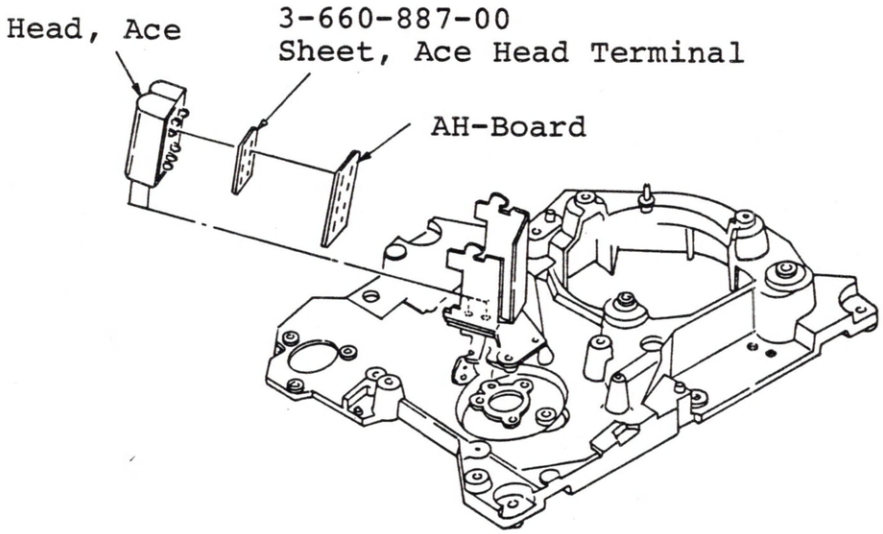
Date: June, 1981 **No.** 108

Model: SL-300 series

Subject:

ADDITION OF AN ACE HEAD TERMINAL SHEET

An ACE HEAD TERMINAL SHEET has been added to improve the reliability of the ACE HEAD.



Factory modified models and serial numbers:

SLO-323.....16901 and higher
SLO-323MD...10201 and higher
SLO-383.....11351 and higher
SLP-303.....12601 and higher

Ref: VTRW-81-1044

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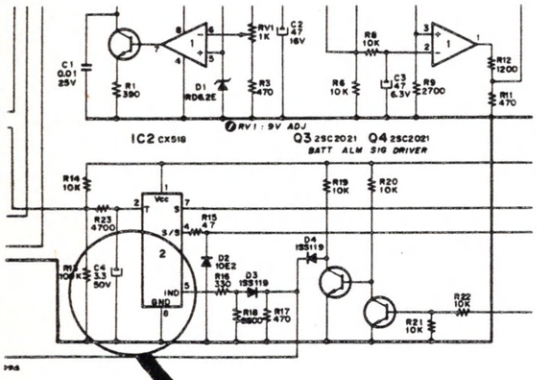
Date: June, 1981 **No.** 109

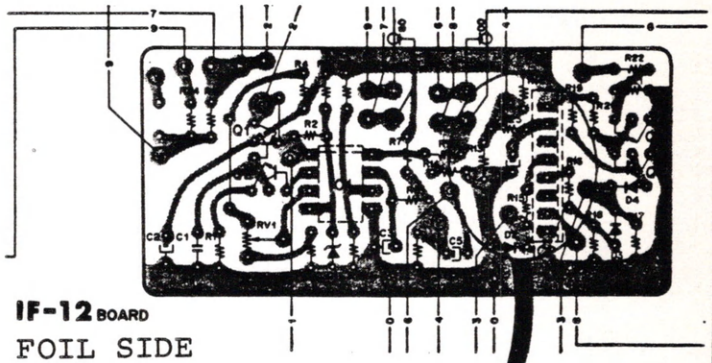
Model: CMA-204

Subject: IMPROVEMENT OF THE REC START/STOP

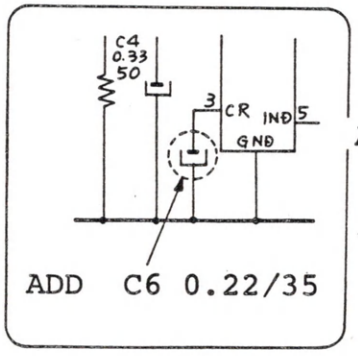
When the camera's recording switch has been turned ON and OFF, if the VTR does not operate properly, then perform the following modification.

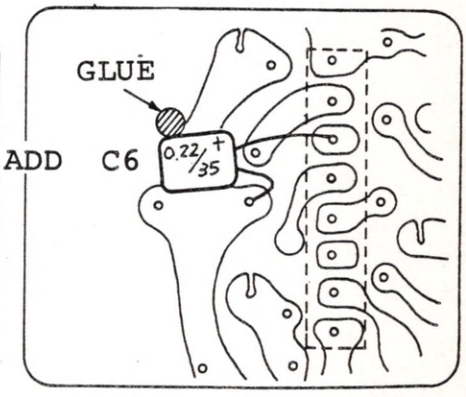
IF-12 board: Add C6 0.22 MF/35V tantalum
(Part No. 1-131-343-00)





IF-12 BOARD
FOIL SIDE





Factory modified serial numbers:

10401 and higher

Ref: VTRW-81-1049

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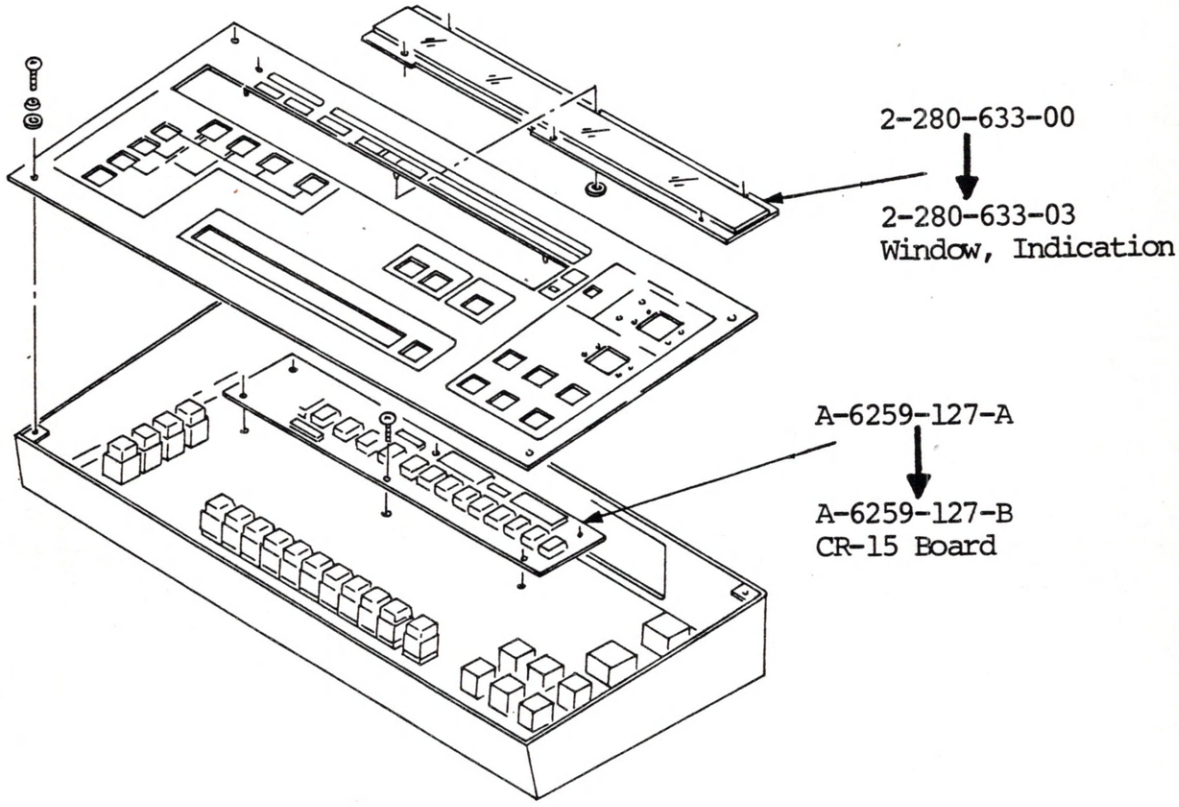
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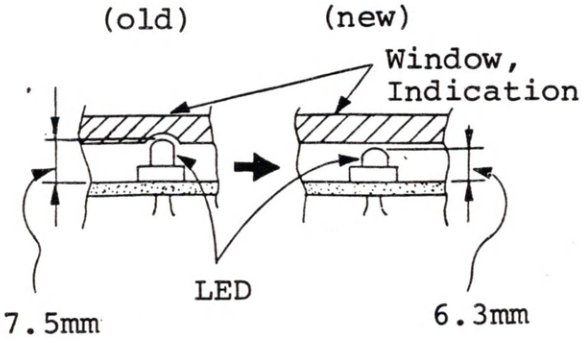
Date: June, 1981 **No.** 110

Model: VRC-100

Subject: CHANGE OF THE INDICATION WINDOW

The INDICATION WINDOW and the mounting height of the LED on the CR-15 Board have been changed to permit the indication of the LED to be seen more clearly.





Ref: VTRW-81-1050

PERIPHERAL

Factory modified serial numbers:

10241 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-10240	10241 and higher
old part	2-280-633-00	YES	YES
new part	2-280-633-03	YES (1)	YES
old part	A-6259-127-A	YES	NO
new part	A-6259-127-B	YES	YES

NOTE: (1) Must be used with A-6259-127-B.

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Date: June, 1981 **No.** 111

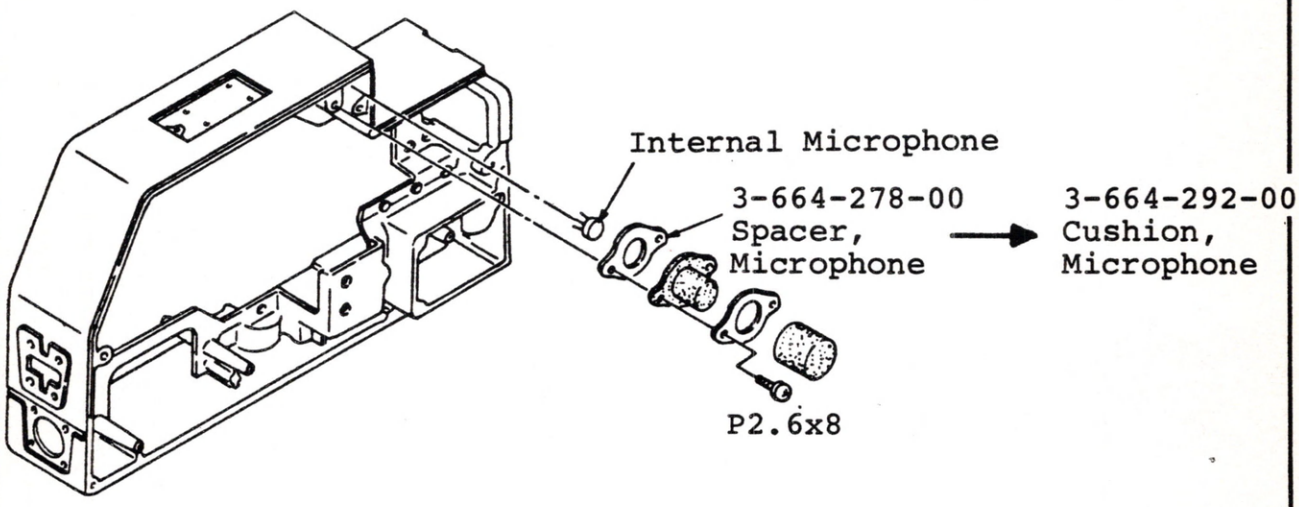
Model: DXC-1800

CAMERA

Subject:

CHANGE OF THE MICROPHONE SPACER

The material of the MICROPHONE SPACER has been changed from iron to vinyl chloride.



Factory modified serial numbers:

11431 and higher

NOTE: The new part is compatible with serial numbers 11430 and lower.

Ref: VTRW-81-1054

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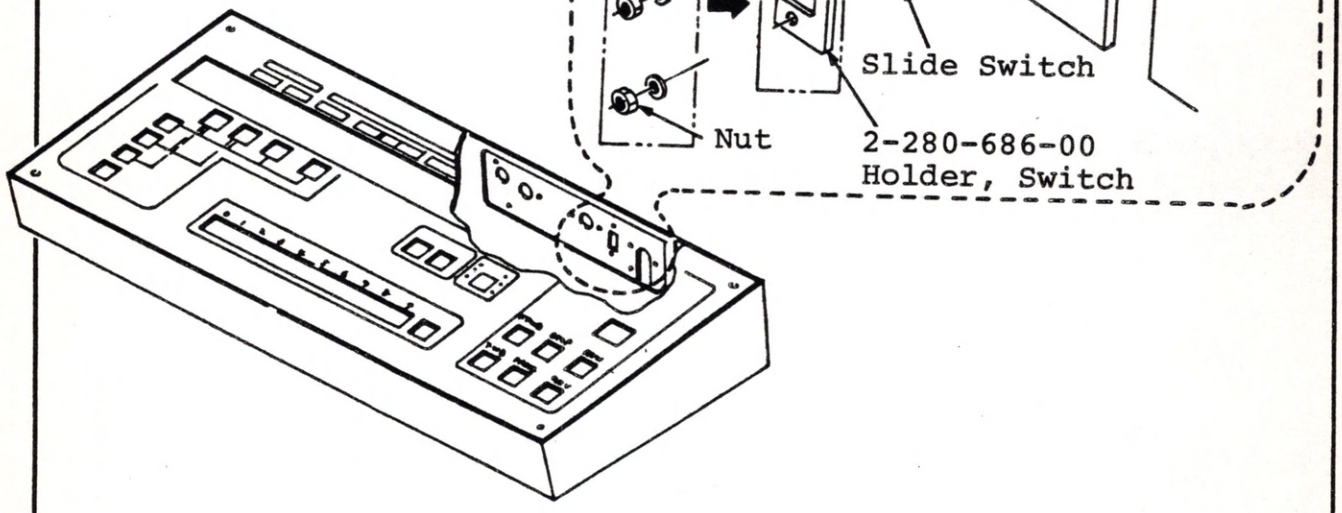
Date: June, 1981 **No.** 112

Model: VRC-100

Subject:

CHANGE OF THE SLIDE SWITCH MOUNTING

The method of mounting the SLIDE SWITCH has been changed. The NUTS have been replaced by a SWITCH HOLDER.



Factory modified serial numbers:

10241 and higher

NOTE: The new part is compatible with serial numbers 10240 and lower.

Ref: VTRW-81-1055

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VIDEO PRODUCTS TECHNICAL BULLETIN

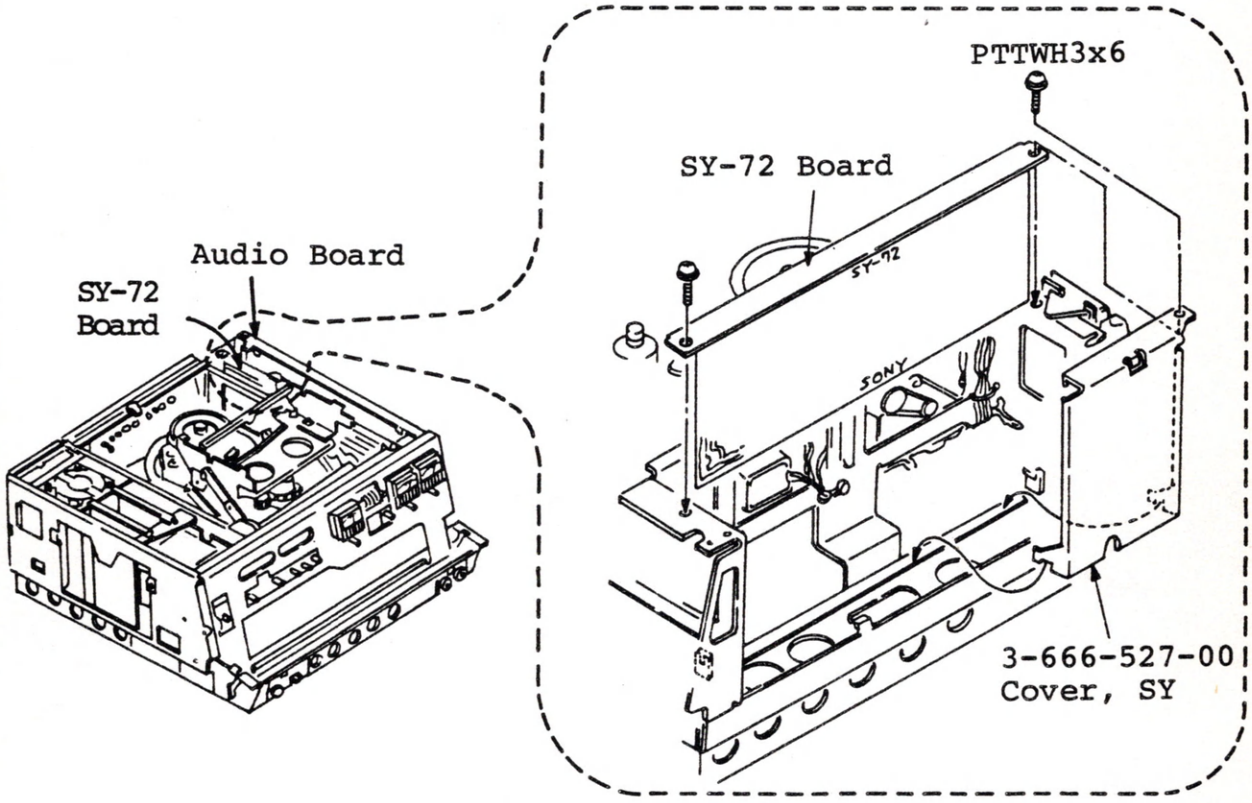
VIDEO PRODUCTS COMPANY
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Date: June, 1981 **No.** 113

Model: SLO-383

Subject: ADDITION OF AN SY-COVER

An SY-COVER has been added to improve the audio signal-to-noise ratio.



Factory modified serial numbers:

11351 and higher

NOTE: The new part is compatible with Serial numbers 11350 and lower.

Ref: VTRW-81-1057

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VIDEO PRODUCTS COMPANY
VIDEO TECHNICAL INFORMATION DEPT.
700 W. Artesia Blvd. Compton, CA. 90220

Date:

No. 114

Model: SLP-300, SLO-320, -340

TR

Subject: IMPROVEMENT FOR "SLOW REWIND AND NO REWIND"

When the subject models are to be used in applications where the tape is replayed repeatedly, or under adverse environmental conditions, it is recommended that the following improvements to the rewinding mechanism be incorporated. These improvements resist wear and environmental effects which could result in slow or no rewind symptoms.

The mechanism of the SLO-340 differs from the SLP-300 and SLO-320. Therefore, when modifying the SLO-340, some parts can be replaced with new parts, while some other parts cannot. See end of following table for details.

condition of use / model	SLP-300	SLO-320
(A) When the same tape is repeated using the REPEAT mode. When a short segment of a tape is played repeatedly.	Perform section 1,2,3,4. 1. Install improvement service kit (A-674-601-4A) Serial number of machines modified at the factory. SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher 2. Replace the former parts with following improved parts. .S-reel table (3-653-591-00) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher .P-brake ass'y (X-365-335-70) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher	Perform section 1,2,3. 1. Replace former parts with following improved parts .Threading ring ass'y (X-365-334-47) .T-reel table (X-365-472-00) .Rew limiter ass'y (A-674-005-7A) .Midway pulley ass'y (3-660-853-00) .Rew idler (X-365-331-50) .TB-guide (3-653-563-02) Serial number of machines that are replacement of TB-guide will be required with new one. SLO-320(USA)...Up to 17200 SLO-320(CND)...Up to 20900 .Upper drum (A-676-005-0A) .Center adj bracker ass'y (X-365-472-40) .S-reel table (3-653-591-00) Following serial numbers with new S-reel table installed at the factory. SLO-320(USA)...16353 and higher SLO-320(CND)...20701 and higher

Ref: VTRW 80-80

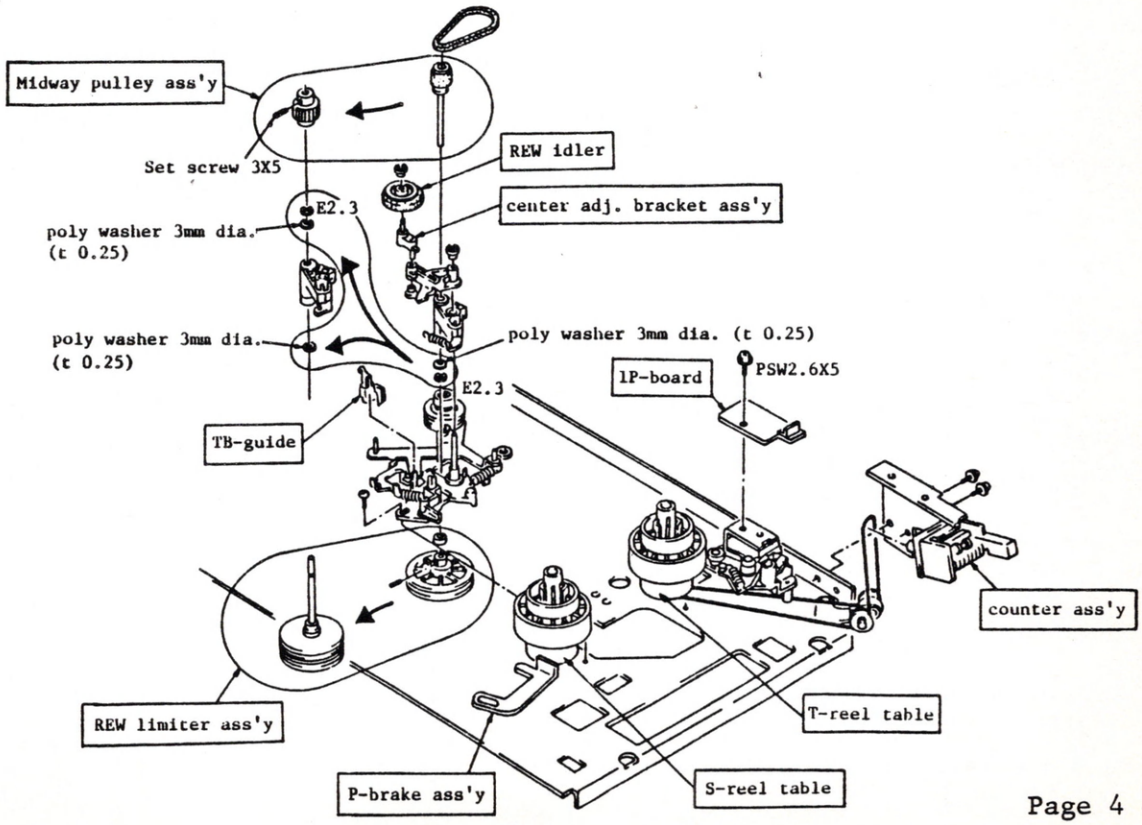
	.AUDIO/CTL HEAD (8-829-367-10) Serial number of machines modified at the factory. SLP-300(USA)...20801 and higher SLP-300(CND)...21101 and higher	.P-brake ass'y (3653-357-0) Serial number of machines modified at the factory. SLO-320(USA)...16353 and higher SLO-320(CND)...20701 and higher .AUDIO/CTL HEAD (8-829-367-30) Serial number of machines modified at the factory. SLO-320(USA)...15101 and higher SLO-320(CND)...20501 and higher
	3. When repeat operation is desired, arrange prerecorded program to avoid repeating a short tape segment, but substitute playing the whole length of the tape. When a 15 minute program is to be repeated, record the 15 minute segment twice, to repeat a 30 minute segment. This program change will reduce the repeat count by half.	2. When repeat operation is desired, arrange prerecorded program to avoid repeating a short tape segment, but substitute playing the whole length of the tape. When a 15 minute program is to be repeated, record the 15 minute segment twice, to repeat a 30 minute segment. This will reduce the repeat count by two.
	4. Do not use the machine when ambient temperature is adverse (high temperature, high humidity)	3. Do not use the machine when temperature is adverse (high temperature, high humidity)
(B) When ambient temperature is adverse. (high temperature, high humidity)	Perform section 1,2,3,4. 1. Replace the former parts with following parts. .Counter ass'y (A-674-503-0A) Serial number of machines modified at the factory SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher	Perform section 1,2. 1. Replace the former parts with the following improved parts. .T-reel table (X-365-472-00) .Rew limiter ass'y (A-674-005-7A) .Midway pulley ass'y (3-660-853-00) .Rew idler (X-365-331-50) .TB-guide (3-653-563-02) Serial number of machines replacement of TB-guide will be required with new one. SLO-320(USA)...Up to 17200 SLO-320(CND)...Up to 20900 .AUDIO/CTL HEAD (8-829-367-30) Serial number of machines modified at the factory. SLO-320(USA)...15101 and higher SLO-320(CND)...20501 and higher .Center adj bracket ass'y (X-365-472-40)
	2. Install the following new parts. .IP board (A-671-616-0A) Serial number of machines modified at the factory SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher	
	3. Replace the former parts with following improved parts. .T-reel table (X-365-472-00) .Rew limiter ass'y (A-674-005-7A) .Midway pulley ass'y (3-660-853-00) .Rew idler (X-365-331-50) Serial number of units in which new T-reel table, Rew limiter ass'y, Midway pulley ass'y Rew idler are installed SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher .TB-guide (3-653-563-02)	.S-reel table (3-653-591-00) Serial number of machines modified at the factory. SLO-320(USA)...16353 and higher SLO-320(CND)...20701 and higher .P-brake ass'y (X-365-335-70) Serial number of machines modified at the factory. SLO-320(USA)...16353 and higher SLO-320(CND)...20701 and higher

	Serial number of machines replacement of TB-guide will be required with new one. SLP-300(USA)...14201 24300 SLP-300(CND)...20001 21400 .AUDIO/CTL HEAD (8-829-367-10) Serial number of machines modified at the factory. SLP-300(USA)...20801 and higher SLP-300(CND)...21101 and higher .S-reel table (3-653-591-00) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher .P-brake ass'y (X-365-335-70) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher .Center adj bracket ass'y (X-365-472-40) Serial number of machines modified at the factory. SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher	
	4. Do not use the machine when ambient temperature is adverse. (high temperature, high humidity)	2. Do not use the machine when ambient temperature is adverse. (high temperature, high humidity)
(C) When the operating condition is other than A & B, and unit is recently installed.	Replace the former parts with following improved parts. .T-reel table (X-365-472-00) .Rew limiter ass'y (A-674-005-7A) .Midway pulley ass'y (3-660-853-00) .Rew idler (X-365-331-50) In units with following serial numbers new T-reel table, Rew limiter ass'y, Midway pulley ass'y, Rew idler are installed the machine at the factory. SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher .TB-guide (3-653-563-02) Serial number of machines that are replacement of TB-guide will be required with new one. SLP-300(USA)...14201 24300 SLP-300(CND)...20001 21400 .Center adj bracket ass'y (X-365-472-40) Serial number of machines modified at the factory. SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher .S-reel table (3-653-591-00) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher .P-brake ass'y (X-365-335-70) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher	Perform the modification in section (B)

(D) When rubber of Midway pulley ass'y and Rew idler are not worn.	Replace the former parts with following improvement parts. .S-reel table (3-653-591-00) Serial number of machines modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher .P-brake ass'y (X-3653-357-0) Serial number of machine modified at the factory. SLP-300(USA)...23701 and higher SLP-300(CND)...21201 and higher .Rew idler (X-3653-315-0) Serial number of machine modified at the factory. SLP-300(USA)...24301 and higher SLP-300(CND)...21401 and higher	Replace the former parts with following improved parts. .S-reel table (3-653-591-00) .P-brake ass'y (X-365-335-70) .Rew idler (X-365-331-60)

When SLO-340

Replacing the following parts with new parts is possible.		Following parts are impossible to be replaced by new parts, because of different mechanism with SLP-300, SLO-320	
.Rew idler	(X-365-331-50)	.Rew limiter ass'y	(A-674-005-7A)
.Threading ring ass'y	(X-365-334-47)	.Midway pulley ass'y	(3-660-853-00)
.TB-guide	(3-653-563-02)	.T-reel table	(X-365-472-00)
.Upper drum	(A-676-005-0A)	.IP-board	(A-671-616-0A)
.Center adj bracket ass'y	(X-365-472-40)	.Counter ass'y	(A-674-503-0A)
.S-reel table	(3-653-591-00)		
.P-brake ass'y	(X-365-335-70)		
.AUDIO/CTL HEAD	(8-829-367-30)		



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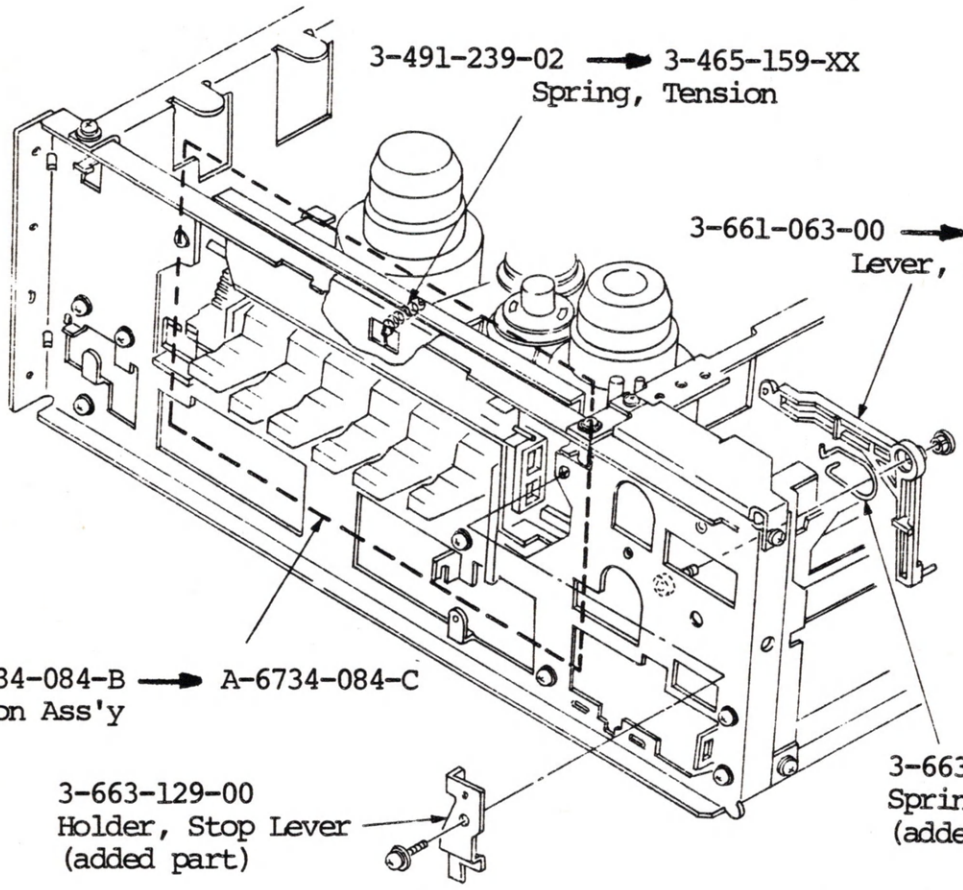
Date: July, 1981 **No.** 115

Model: VO-4800

Subject:

REINFORCEMENT OF THE STOP LEVER

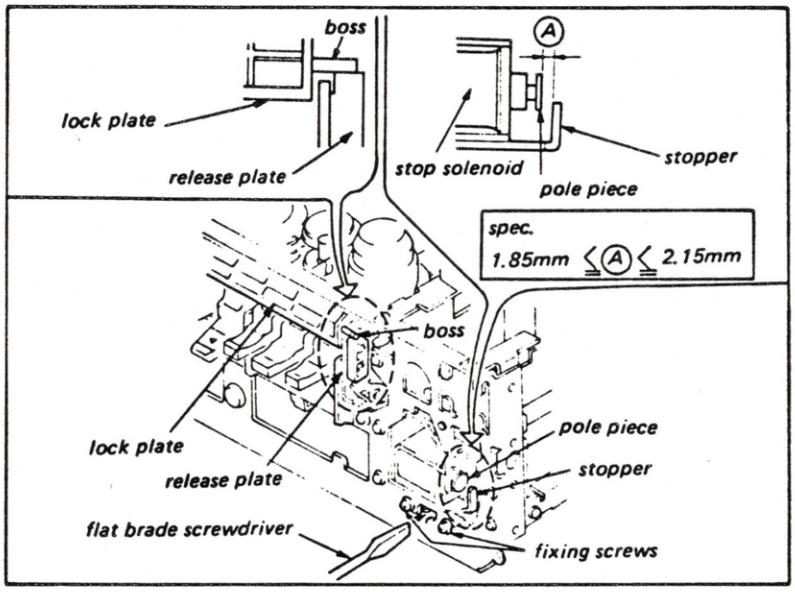
The material of the STOP LEVER has been changed from plastic to zinc in order to more effectively transfer the power of the STOP SOLENOID. A STOP LEVER SPRING and STOP LEVER HOLDER have also been added, and the TENSION SPRING of the BUTTON ASS'Y has been changed.



Ref: VTRW-81-1004

Therefore, the STOP SOLENOID POSITION ADJUSTMENT has been changed.

Cassette tape	:	Any cassette tape
Mode	:	PLAY
Check procedure	:	(i) Push the pole piece of the stop solenoid until the release plate makes contact with the boss of the lock plate. (ii) Check to insure that Clearance "A" between the stopper and the pole piece of the stop solenoid meets the required specification.
Adjustment procedure:		Adjust the position of the stop solenoid.



Factory modified serial numbers:

11051 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-11050	11051 and higher
old part	3-661-063-00	YES	NO
new part	X-3661-086-0	YES (1)	YES
old part	A-6734-084-B	YES	NO
new part	A-6734-084-C	YES (2)	YES
old part	3-491-239-02	YES	NO
new part	3-465-159-XX	NO	YES
new part	3-663-123-00	NO	YES
new part	3-663-129-00	NO	YES

NOTE: (1) Must be used with 3-663-123-00, 3-663-129-00, and 3-465-159-XX.
(2) If the STOP LEVER is old (Part No. 3-661-063-00), then must be used with 3-491-239-02. If the STOP LEVER is new (Part No. X-3661-086-0), then must be used with 3-465-159-XX.

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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: July, 1981 **No.** 116

Model: VO-2860A, VP-2260

Subject:

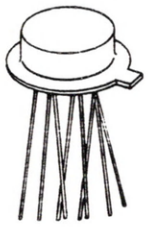
SUBSTITUTION OF I.C.

Use the TA7504S-G as a substitute for the TA7504M-R in the models listed in the following table.

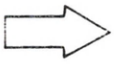
Model	Serial number	Board	Ref. No.	Circuit
VO-2860A	13641 and higher	ED-7	IC1	CTL AMP.
VP-2260	13031 and higher	SA-6	IC10	

(OLD)

Metal Can Type

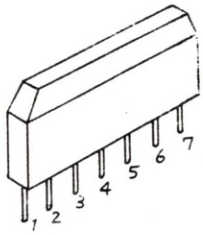


TA7504M-R
8-759-275-14



(NEW)

Single Line Type



TA7504S-G
8-759-205-34

Ref: VTRW-81-1010

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VIDEO TECHNICAL PUBLICATIONS/VIDEO TRAINING
47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: July, 1981 **No.** 117

Model: DXC-6000

CAMERA

Subject:

IMAGE ENHANCEMENT ADJUSTMENT

When you wish to enhance the image, perform the following adjustments:

ADJUSTMENT POINT	ADJUSTMENT
DTL SW: ON DTL ◐ RV9 DETAIL LEVEL IE-2 Board IE-2A Board	The Factory set position is the 1/3-level. The limit of the high level setting is the 1/2-level. NOTE: If set higher than the 1/2-level, the picture will become noisy. 90° ⇦ 1/3-level ◐ RV9 135° ⇦ 1/2-level
DTL SW: ON ◐ RV6 HV RAT V/H DTL RATIO IE-2 Board IE-2A Board	Shoot a close up of the Registration Chart. V·DTL H·DTL V·DTL H·DTL (J-6021-900-A) ◐ RV6 The H & V detail levels should be the same amplitude.

Ref: VTRW-81-1070

DTL SW: ON



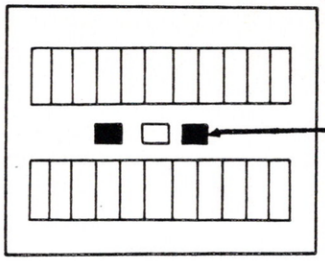
RV5

CR ISP

CRISPENING LEVEL

IE-2 Board
IE-2A Board

GRAY SCALE CHART



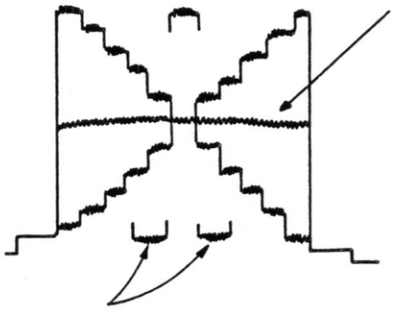
(J-6021-880-B)

RV5

Adjust until the noise on the entire picture starts to reduce.

NOTE: If turned too far, the detail will be lost.

(waveform)



DTL SW: ON



LEV DEP

RV8

LEVEL DEPENDENT

IE-2 Board
IE-2A Board

RV8

Adjust so that the noise on the blackest level is minimized.

NOTE: If turned too far, the noise will appear on the light level, and the detail will be lost.

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VIDEO TECHNICAL PUBLICATIONS/VIDEO TRAINING
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Date: July, 1981 **No.** 118

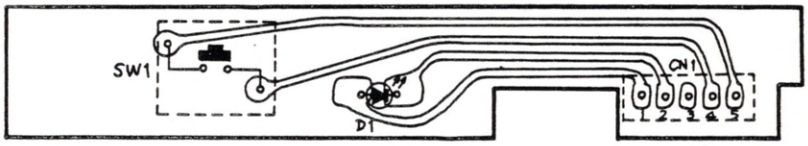
Model: VO-4800

Subject:

CHANGE OF THE SW-26 BOARD

The SW-26 BOARD has been changed, and the CONNECTOR (CN1) on the SW-26 BOARD has also been changed from a 5-pin to a 4-pin connector.

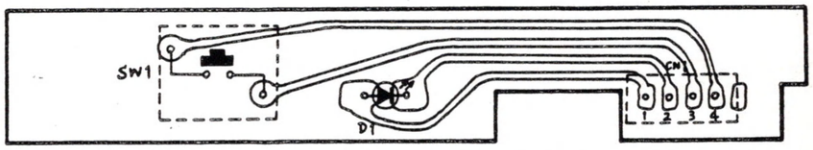
old part



SW-26 - component side

Printed circuit board SW-26 1-600-262-00
Connector CN1 (5p) 1-560-015-00

new part



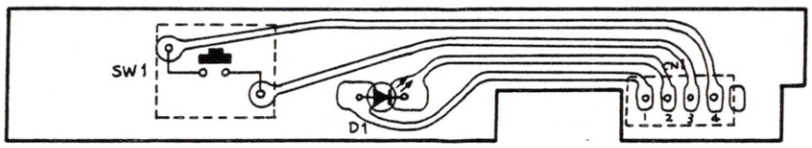
SW-26 - component side

Printed circuit board SW-26 1-600-262-12
Connector CN1 (4p) 1-560-542-00

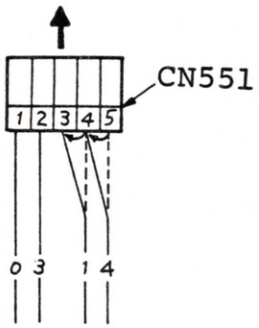
Therefore, when replacing the SW-26 BOARD with a new board, perform the following modification.

Ref: VTRW-81-1072

New SW-26 Board



Change of connector (CN551) wiring.



	(old)		(new)
Brown wire	CN551-pin 4	⟶	CN551-pin 3
Yellow wire	CN551-pin 5	⟶	CN551-pin 4

Factory modified serial numbers:

14551 and higher

Only new SW-26 BOARDs will be stocked.

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial numbers	
			10001-14550	14551 and higher
SW-26 Board	old	1-600-262-00	YES	NO
	new	1-600-262-12	YES (1)	YES
Connector (5 pin)	old	1-560-015-00	YES	NO
Connector (4 pin)	new	1-560-542-00	NO	YES

NOTE: (1) The above modification must be performed.

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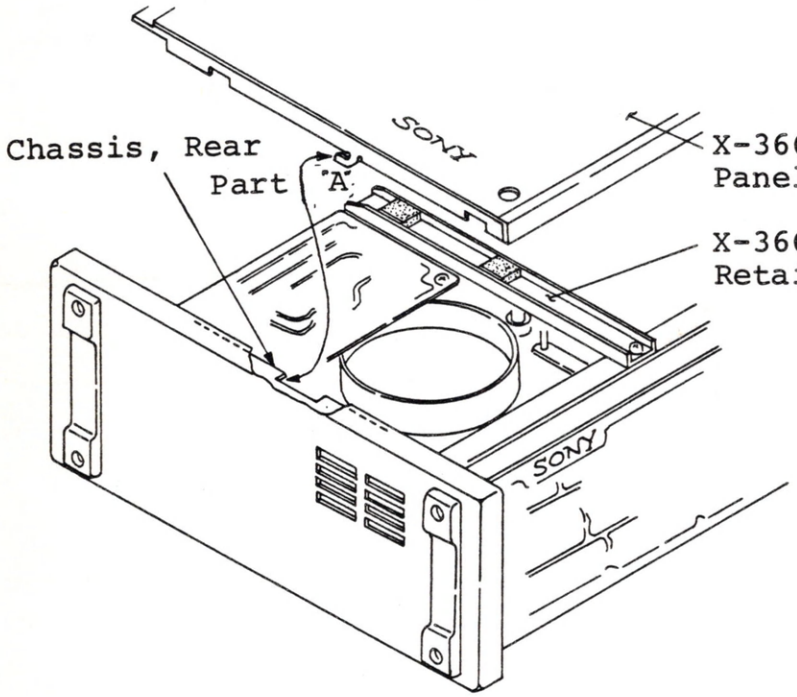
Date: July, 1981 **No.** 119

Model: VO-4800

Subject:

CHANGE OF THE UPPER PANEL ASS'Y

The UPPER PANEL ASS'Y, PANEL RETAINER ASS'Y, AND REAR CHASSIS have been changed.



X-3661-064-0 → X-3661-064-3
Panel Ass'y, Upper

X-3661-063-0 → X-3661-063-2
Retainer Ass'y, Panel

Factory modified serial numbers:

12101 and higher

Ref: VTRW-81-1073

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial numbers	
			10001-12100	12101 and higher
Panel Ass'y, Upper	old	X-3661-064-0	YES	NO
	new	X-3661-064-3	YES (1)	YES
Retainer Ass'y, Panel	old	X-3661-063-0	YES	NO
	new	X-3661-063-2	YES	YES

NOTE: (1) Cut off part "A".

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Date: July, 1981 **No.** 120

Model: SLO-383

Subject:

IMPROVEMENT OF AUDIO WHEN USED WITH THE RM-440

When used in combination with the RM-440 in the E-E mode, if audio noise occurs, perform the following modification.

RM-440

Change the values of C7, C21, and C44 on the MP-7 Board.

C7 and C21

100 μF/10V (p.n. 1-123-307-00)

↓

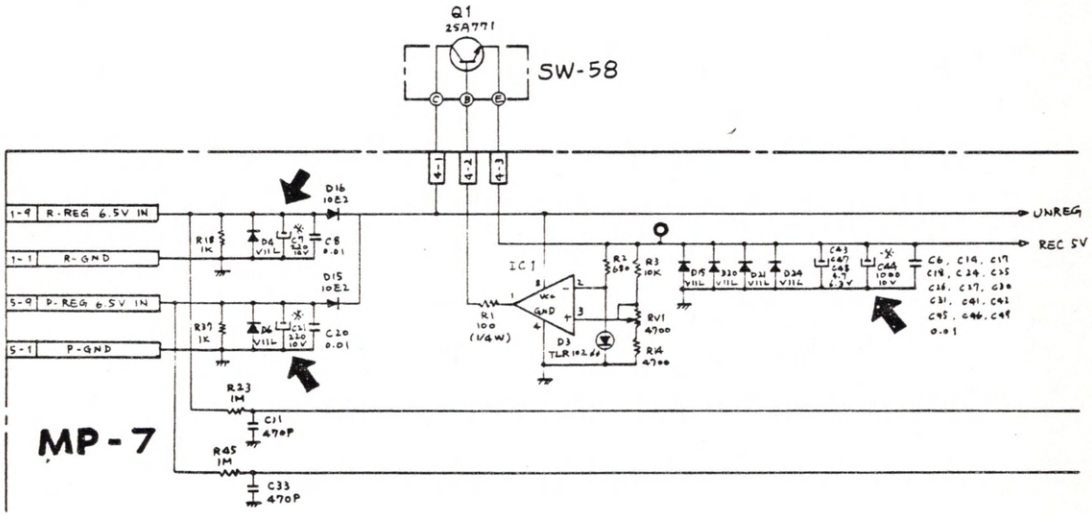
220 μF/10V (p.n. 1-123-308-00)

C44

47 μF/6.3V (p.n. 1-123-647-00)

↓

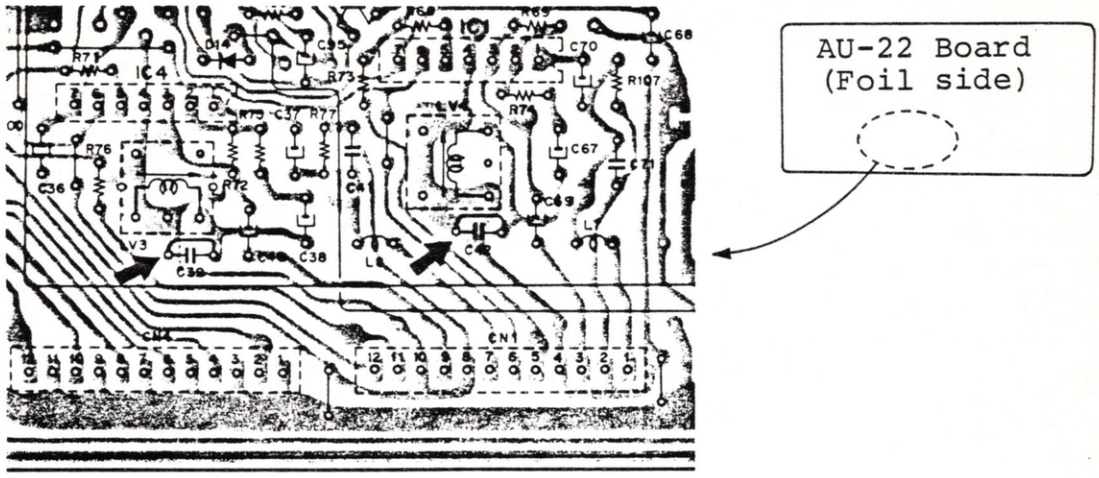
1000 μF/10V (p.n. 1-123-311-00)

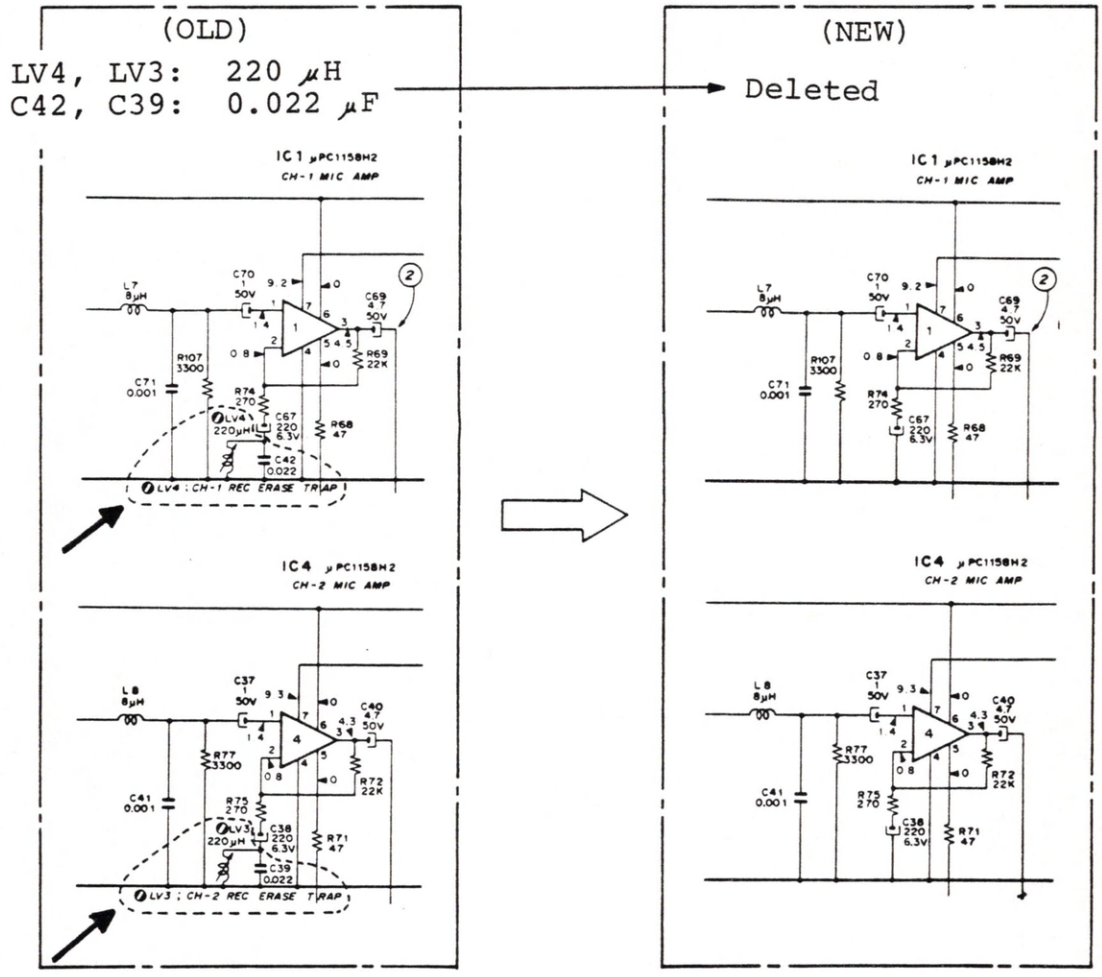


Ref: VTRW-81-1075

SLO-383

Short C39 and C42 on the AU-22 Board with a jumper wire as shown below.





Factory modified models and serial numbers:

SLO-383.....10751 and higher
RM-440.....11751 and higher

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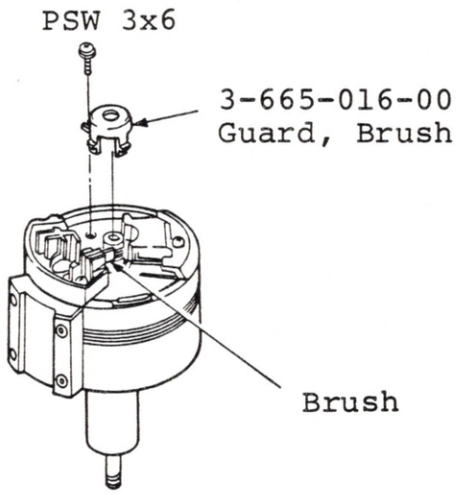
Date: July, 1981 **No.** 121

Model: SLO-383

Subject:

ADDITION OF A BRUSH GUARD

A BRUSH GUARD (part no. 3-665-016-00) has been added.



Factory modified serial numbers:

11351 and higher

The new part is not compatiable with serial numbers 11350 and lower.

Ref: VTRW-81-1077

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Date: July, 1981 **No.** 122

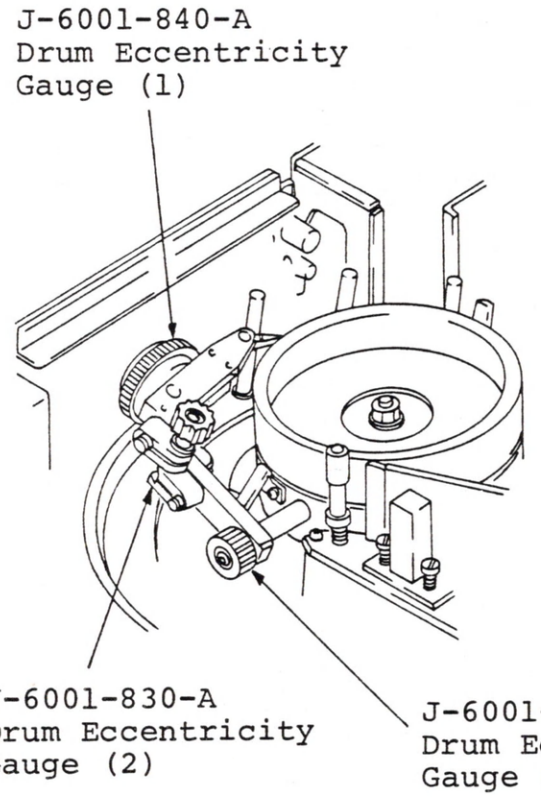
Model: U-MATIC 1000 series

Subject:

CHANGE OF THE DRUM ECCENTRICITY GAUGE MOUNTING POSITION

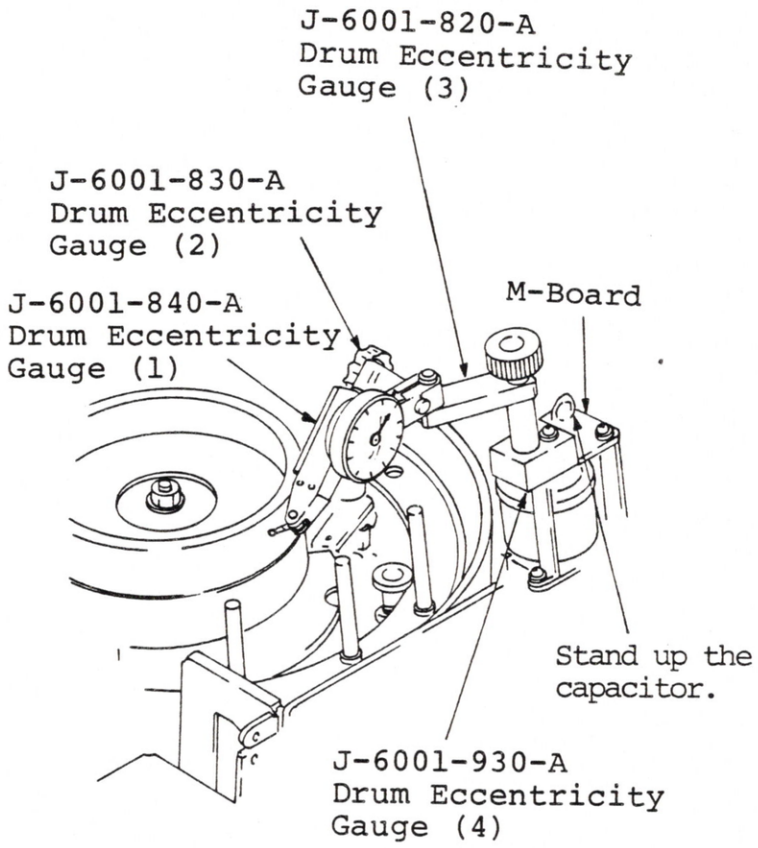
The screw hole provided for the installation of the DRUM ECCENTRICITY GAUGE on the side of the DRUM has been eliminated. Therefore, the installation of the DRUM ECCENTRICITY GAUGE has been changed as shown below.

(OLD)



Ref: VTRW-81-1078

(NEW)


J-6001-820-A
Drum Eccentricity
Gauge (3)
J-6001-830-A
Drum Eccentricity
Gauge (2)
J-6001-840-A
Drum Eccentricity
Gauge (1)
M-Board
Stand up the
capacitor.
J-6001-930-A
Drum Eccentricity
Gauge (4)

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Date: July, 1981 **No.** 123

Model: DXC-6000

CAMERA

Subject:

DY COIL IN THE 3 TUBE-TYPE COLOR CAMERA

In the DY COIL (deflection) (part no. 1-451-195-00) of the PICK-UP TUBE, parts R, G, and B have been treated as separate parts. However, recently the SELECTED DY COIL SET (part no. 1-451-196-00), which contains parts R, G, and B, was added as a replacement part. Replacement of all three DY COILs as a set is recommended to facilitate adjustments.

A SELECTED PICK-UP TUBE SET (part no. 1-525-219-00), which consists of parts R, G, and B, was also recently added as a replacement part. Replacement of all three TUBEs as a set is also recommended to facilitate adjustments. However, when ordering the SELECTED PICK-UP TUBE SET, please allow additional time for delivery.

Ref: VS-81-1001

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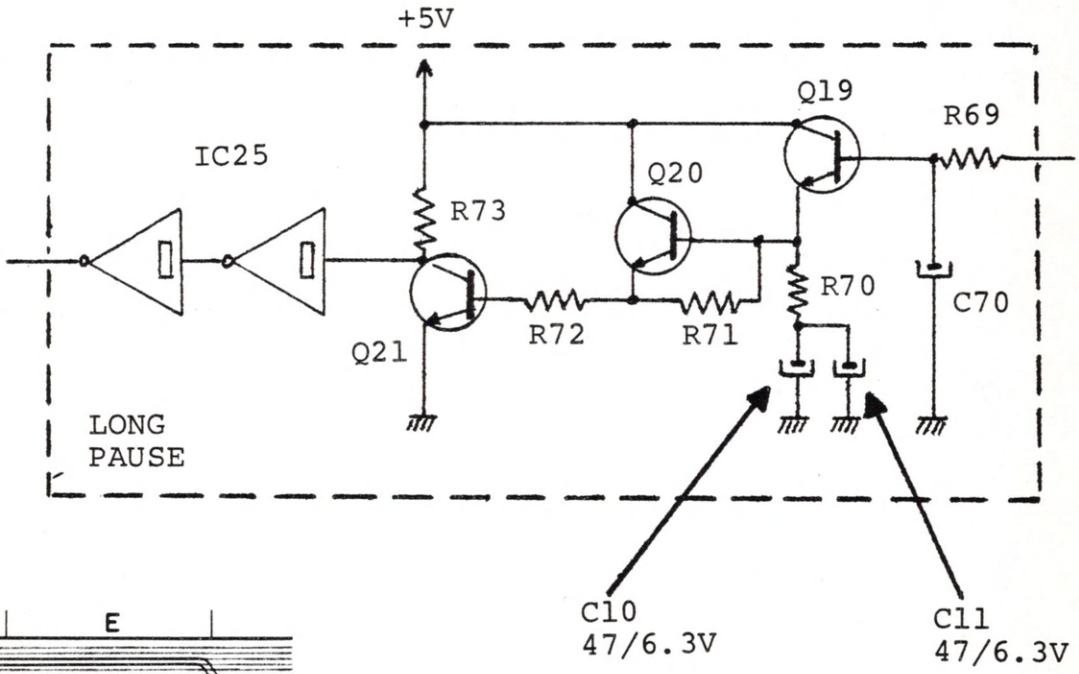
Date: July, 1981 **No.** 124

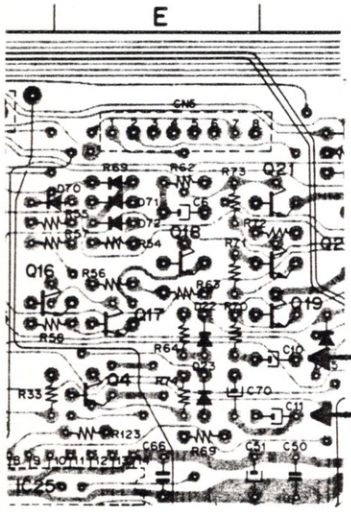
Model: SLO-383

Subject:

SHORT "LONG PAUSE" WHEN EDITING WITH THE RM-440

When editing with the RM-440, if the LONG PAUSE is too short, the unit will automatically stop and clear the memory. In order to resolve this problem, replace C10 and C11 (part no. 1-131-387-00) on the SY-64 Board.





Replace: C10 47/6.3V

Replace: C11 47/6.3V

Ref: VS-81-1016

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Date: July, 1981 **No.** 125

Model: CCU-6000

CAMERA

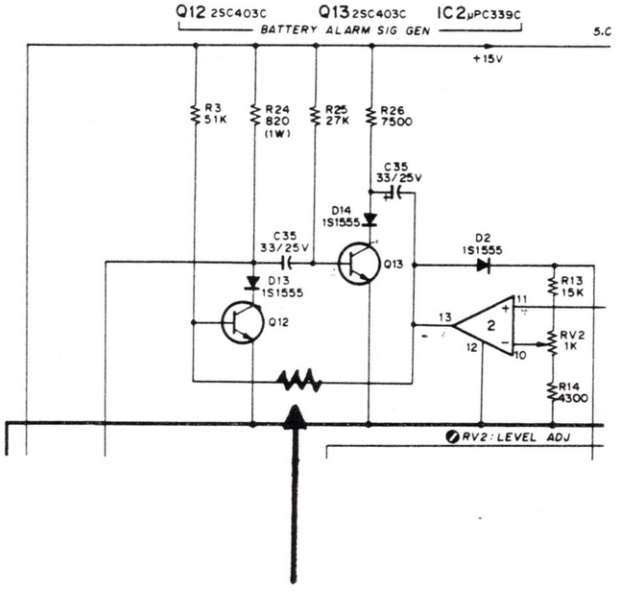
Subject:

PICTURE NOISE WHEN THE POWER SUPPLY ALARM IS ACTIVATED

When operating on EXT DC, if the EXT DC VOLTAGE drops below 11V, the GREEN POWER LAMP will begin to flash. During the period that the POWER LAMP is flashing, the video signal will waver, and noise can be seen in the picture.

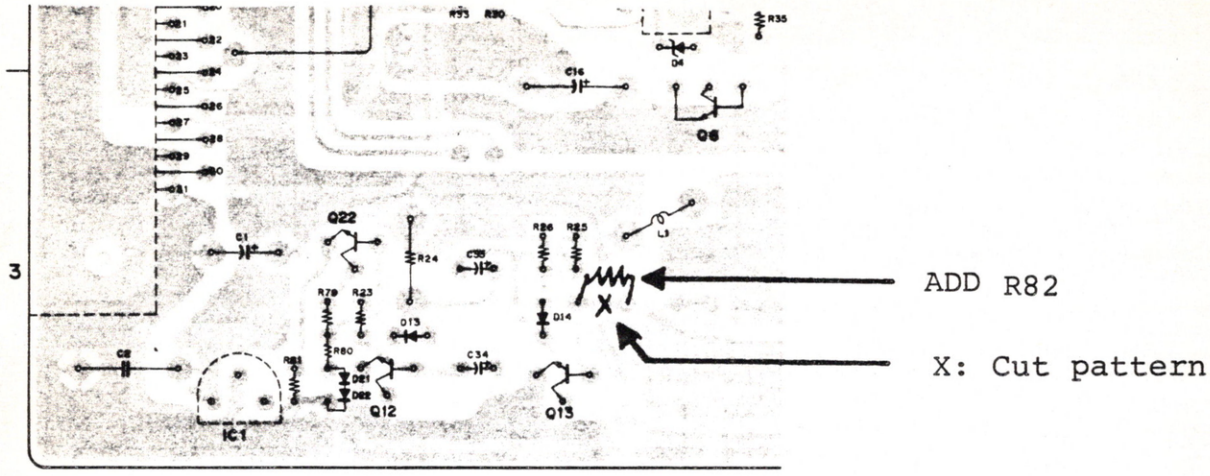
In order to eliminate the noise, perform the following modification on the PW-61 Board.

Add R82 1K ohms, 1/8W, carbon
Cut the pattern as shown below



ADD: R82 1K ohms, 1/8W, carbon

Ref: VS-81-1017


3
Q22
R24
C35
R86
R85
L3
R79
R23
D13
D14
X
R80
C34
C8
R81
D21
D22
Q12
Q13
IC1
ADD R82
X: Cut pattern

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Date: July, 1981 **No.** 126

Model: CCU-6000

CAMERA

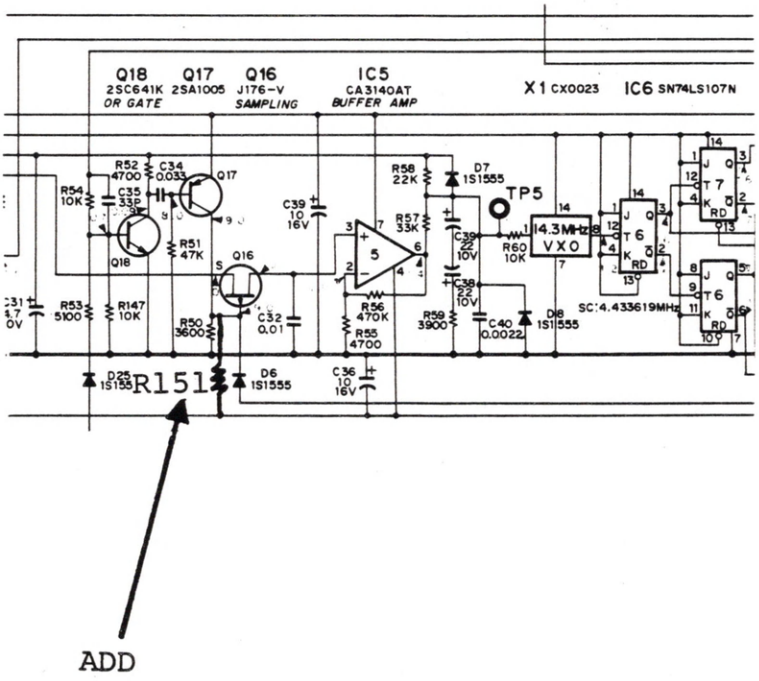
Subject:

IMPROVEMENT OF THE GENLOCK OPERATION

Perform the following modification on the SG-45 Board.

(pp. 63-64)

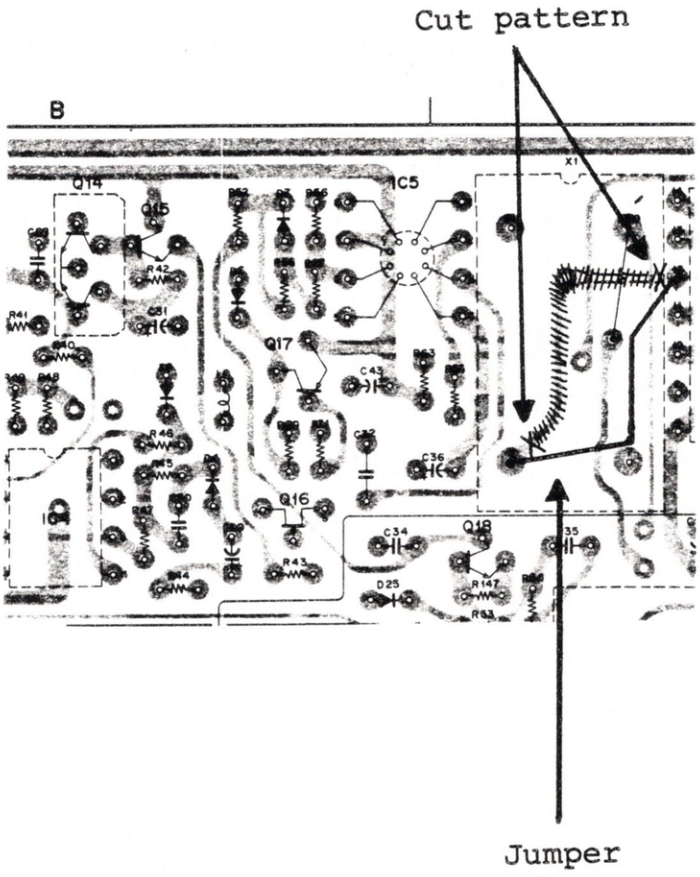
ADD: R151 100K ohms, 1/8W (Part number 1-246-807-00)



Ref: VS-81-1018

(pp. 60-61)

Cut the pattern at the 2 points indicated, and remove the shaded (//////) portion of the pattern between the 2 cuts. Attach a jumper wire (AWG 24-28 vinyl insulated) as shown.



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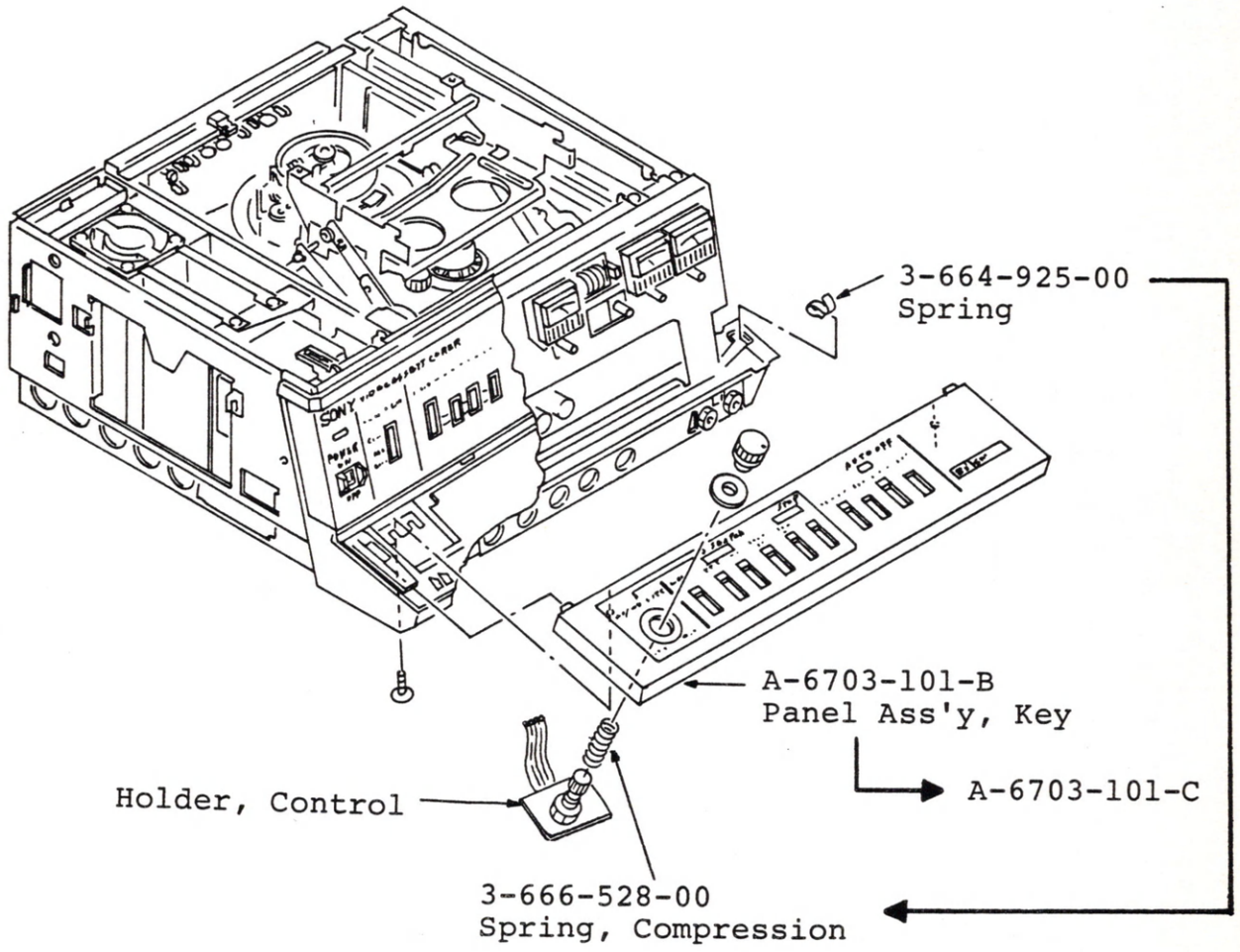
Date: August, 1981 **No.** 127

Model: SLO-383

Subject:

CHANGE OF SPRING AND KEY PANEL ASS'Y

The SPRING and KEY PANEL ASS'Y have been changed.



Ref: VTRW-81-1083

Factory modified serial numbers:

11351 and higher

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial numbers	
			10001-11350	11351 and higher
Spring	old	3-664-925-00	YES	NO
Spring, Compression	new	3-666-528-00	YES (1)	YES
Panel Ass'y, Key	old	A-6703-101-B	YES	NO
	new	A-6703-101-C	YES	YES

NOTE: (1) Must be used together with A-6703-101-C

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Date: August, 1981 **No.** 128

Model: SLO-383

Subject:

CHANGE OF THE "EJECT TORQUE ADJUSTMENT" SPECIFICATION

The EJECT TORQUE ADJUSTMENT SPECIFICATION has been changed to improve the EJECT function.

7-2 EJECT TORQUE ADJUSTMENT

1. Connect a digital volt meter or oscilloscope as follows:

   ⊕ to Pin 3 of CN1 on the RM-10 Board
   ⊖ (or GND) to TP1 on the RM-10 Board

2. Put the machine into the EJECT mode, without inserting a tape. Adjust RV8 on the SY-65 Board so that the voltage meets the required specification.

Spec. 100mV-105mV	(old)
↓	
Spec. 120mV-125mV	(new)

Factory modified serial numbers:

11351 and higher

Ref: VTRW-81-1094

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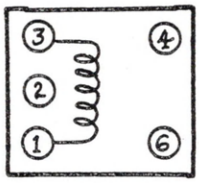
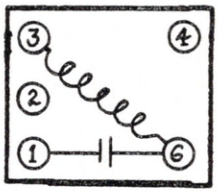
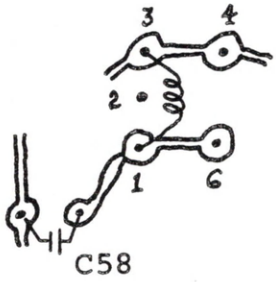
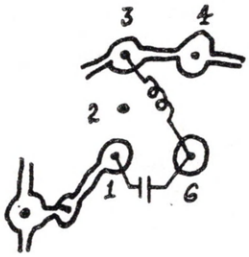
Date: August, 1981 **No.** 129

Model: VO-4800

Subject:

IMPROVEMENT OF COIL L16

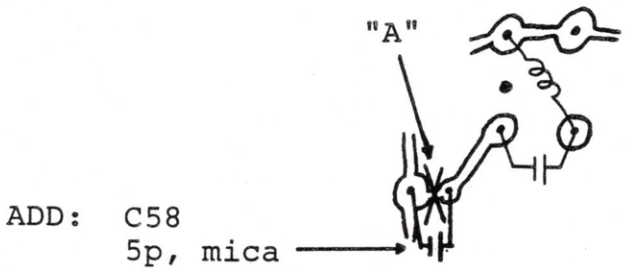
COIL L16 on the VO-2 Board has been improved, and the Board pattern changed.

	(OLD)	(NEW)
	1-459-294-00	1-408-547-00
L16		
C58	1-107-102-00 5p, Mica	DELETED
Pattern		

Ref: VS-81-1022

The new part is compatible with the old board. However, if an old part is attached to a new board, the following modification must be performed.

Cut the pattern at Point "A" and add C58 (5p, Mica)



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Date: August, 1981 **No.** 130

Model: DXC-6000

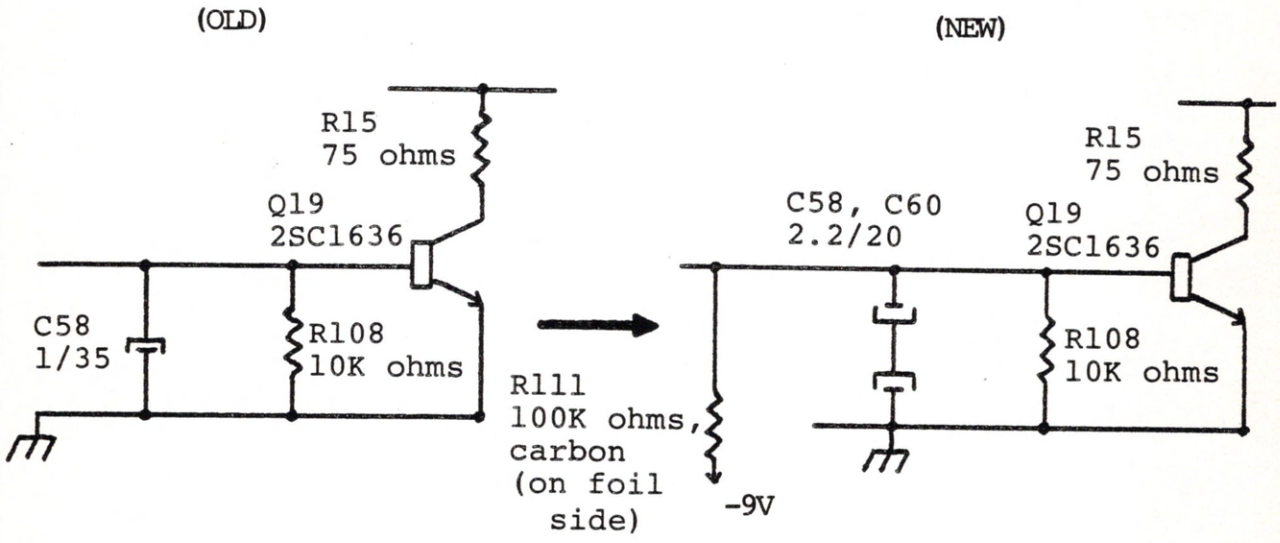
CAMERA

Subject:

CHANGE IN THE SYNC LEVEL

The SYNC LEVEL of the DXC-6000 may vary with changes in the APL of the video signal, EXCEPT when connected with the CCU-6000. If fluctuations do occur, then perform the following modification.

VA-7 Board



CHANGE: C58 Tantalum, 2.2 µF/20V
1-131-361-00

ADD: C60 Tantalum, 2.2 µF/20V
1-131-361-00

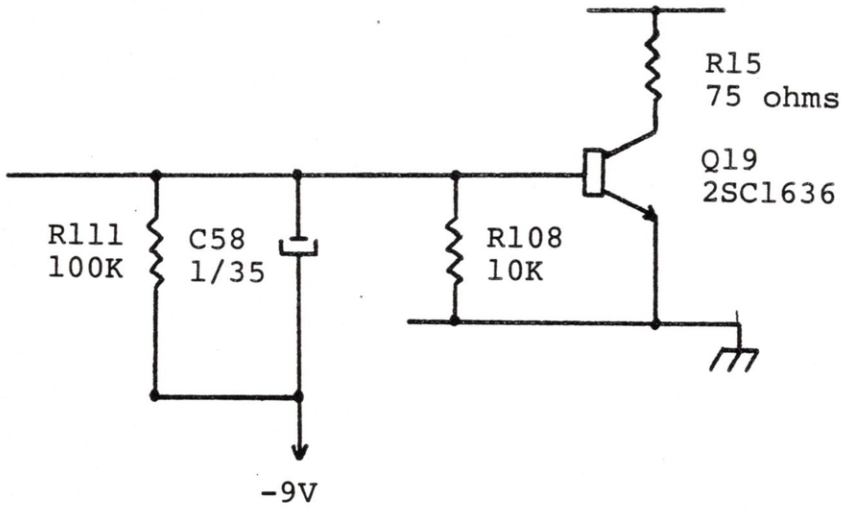
R111 100K ohms, 1/8W, Carbon
1-246-807-00

Ref: VS-81-1023

Factory modified serial numbers:

50225	50303
50325	50331
50354-50356	50361-50369
50371-50387	50391 and higher

'Factory modified' schematic



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Date: Sept., 1981 **No.** 131R

Model: CMA-7

CAMERA

Subject:

DC OUTPUT DROP

If the DC OUTPUT drops after continuous use in a high-temperature location, perform the following modification.

PW-58 Board

C8 and C9	0.47/250 1-130-356-00	→	0.33/250 1-130-462-00
R20	27 ohms, ½W 1-244-835-00	→	75 ohms, ½W 1-244-846-00

PW-59 Board

R23	33K ohms, ¼W 1-246-509-00	→	22K ohms, ¼W 1-246-505-00
R13	560K ohms 1-246-531-00	→	DELETE

Ref: VS-81-1024

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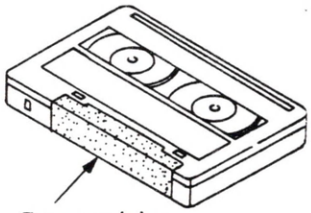
Date: August, 1981 **No.** 132

Model: VO-4800

Subject:

CHANGE OF THE BRACKET ASS'Y

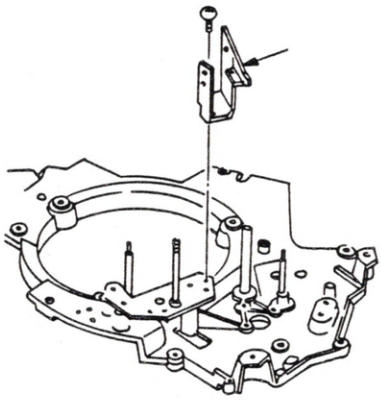
If the cassette is not inserted as far as possible before pushing it down, the CASSETTE LID may not open completely.



Lid, Cassette

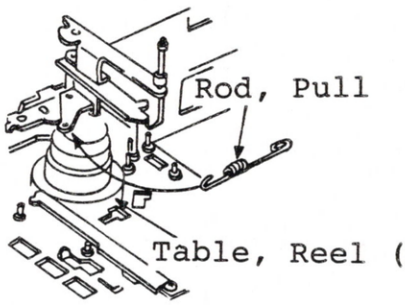
In this case, the tape may not thread, or the cassette may not eject. To improve the operation, the BRACKET ASS'Y has been changed.

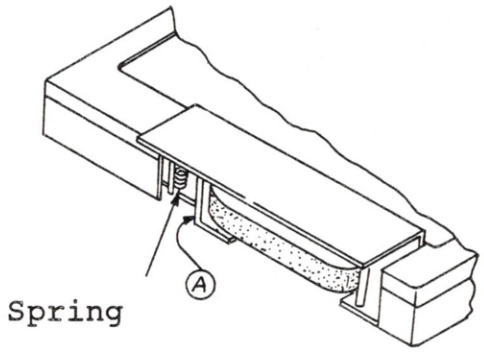
X-3661-072-2 Bracket Ass'y ⟶ X-3661-072-4



Ref: VTRW-81-1092

When replacing the BRACKET ASS'Y, check the PULL ROD. If it is stretched, replace it also.





NOTE: When the BRACKET ASS'Y is replaced, make certain that the BRACKET ASS'Y does not touch either the SPRING or Part "A" of the cassette, when a cassette is inserted.

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-19150	19151 and higher
old part	X-3661-072-2	NO	NO
new part	X-3661-072-4	YES	YES

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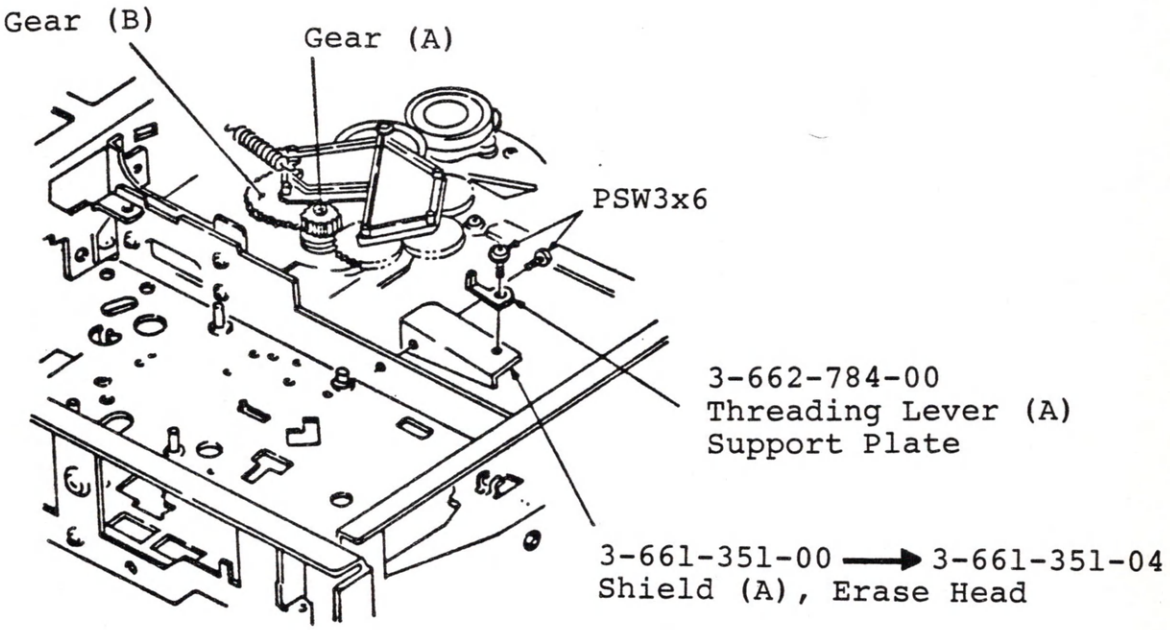
Date: Sept., 1981 **No.** 133

Model: VO-4800

Subject:

ADDITION OF A THREADING LEVER (A) SUPPORT PLATE AND CHANGE OF THE ERASE HEAD SHIELD

A THREADING LEVER (A) SUPPORT PLATE has been added to facilitate the adjustment of GEAR (A) and GEAR (B). The ERASE HEAD SHIELD has also been changed.



Factory modified serial numbers:

15851 and higher

The following table indicates the interchangeability of the old and new parts.

Part name		Part number	Serial numbers	
			10001-15850	15851 and higher
Shield (A),	old	3-661-351-00	YES	NO
Erase Head	new	3-661-351-04	YES	YES
Threading Lever (A) Support Plate	new	3-662-784-00	NO	YES

Ref: VTRW-81-1038

THREADING GEAR POSITION ADJUSTMENT

(A) THREADING LEVER (A) SUPPORT PLATE POSITION ADJUSTMENT

Cassette tape:

Mode: Put the unit into the EJECT mode. After the threading ring returns, turn the POWER OFF.

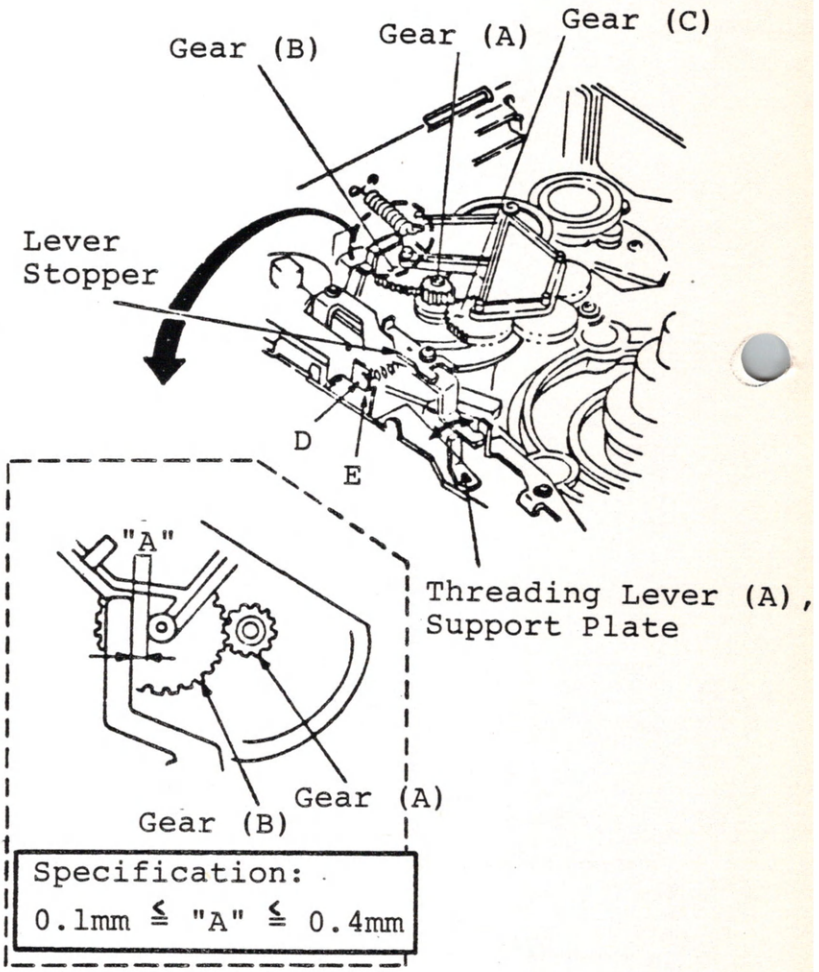
Check procedure:

(i) Push the EJECT button to the lock position.

(ii) Check that Clearance "A" meets the required specification, when Gear (B) is pushed against Gear (A).

Adjustment procedure:

Loosen the fixing screw, and adjust the position of the THREADING LEVER (A) SUPPORT PLATE.



(B) LEVER STOPPER POSITION ADJUSTMENT

Cassette tape:

Mode: Turn the POWER OFF during threading.

Check procedure:

(i) Make "D" come into contact with "E".

(ii) Check that Gear (A) engages securely with Gear (C).

(iii) Check that Clearance "A" meets the required specification.

Adjustment procedure:

Loosen the fixing screw, and adjust the position of the

Adjustment procedure:

Loosen the fixing screw, and adjust the position of the LEVER STOPPER.

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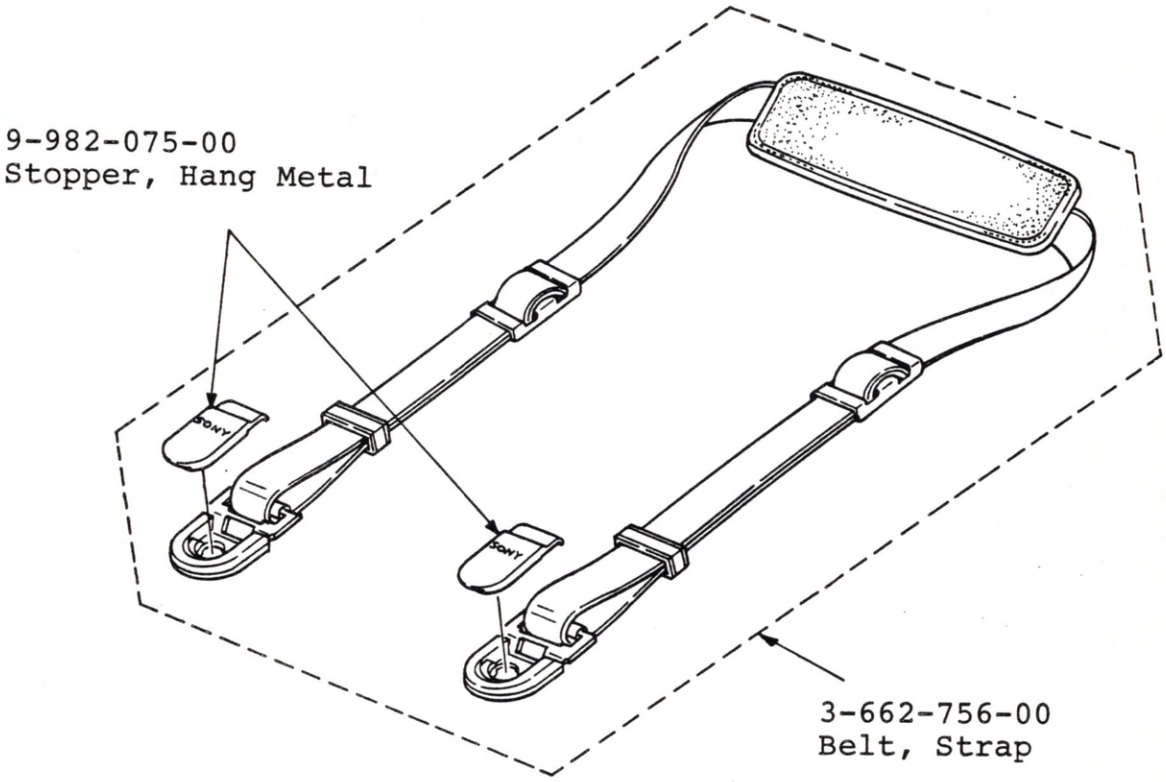
Date: Sept., 1981 **No.** 134

Model: SLO-340, VO-4800

Subject:

STANDARDIZATION OF THE BELT STRAP

The BELT STRAP has been standardized, and the part number changed, as shown below.



Part number

(Old)		(New)
3-654-620-02	⟶	3-662-756-00

Ref: VTRW-81-1096

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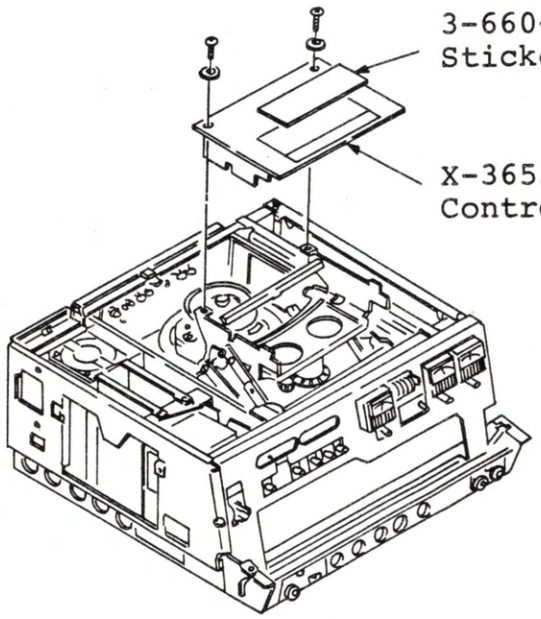
Date: Sept., 1981 **No.** 135

Model: SLO-383

Subject:

CHANGE OF THE CASSETTE UPPER CONTROL ASS'Y

The CASSETTE UPPER CONTROL ASS'Y has been changed, and the CASSETTE WINDOW STICKER has been eliminated.



3-660-927-00
Sticker, Cassette Window

X-3653-349-0 → X-3664-916-0
Control Ass'y, Cassette, Upper

Factory modified serial numbers:

11351 and higher

Ref: VTRW-81-1097

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial numbers	
			10001-11350	11351 and higher
Sticker, Cassette Window	old	3-660-927-00	REQUIRED	NOT REQUIRED
Control Ass'y, Cassette, Upper	old	X-3653-349-0	YES (1)	NO
	new	X-3664-916-0	YES	YES

NOTE: (1) Must be used together with 3-660-927-00.

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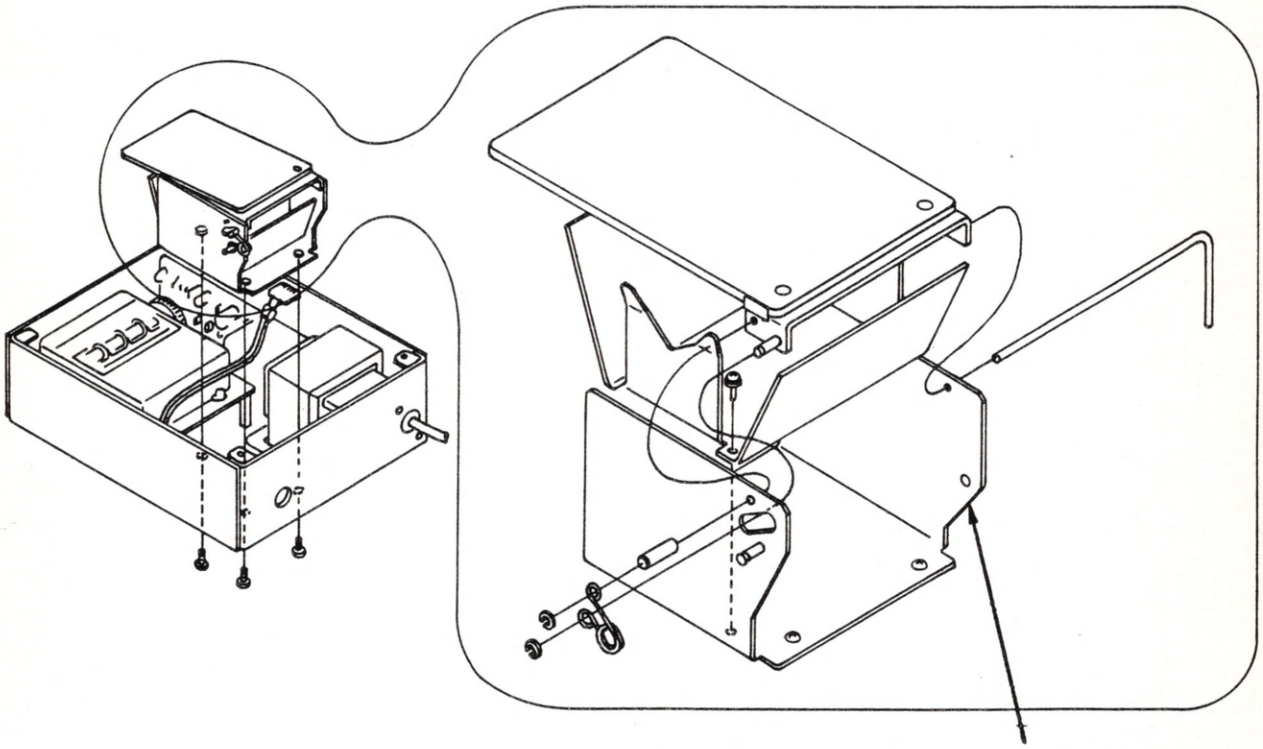
Date: Sept., 1981 **No.** 136

Model: VRP-100

Subject:

CHANGE OF THE PAPER HOLDER ASS'Y

The PAPER HOLDER ASS'Y has been changed.



X-2280-611-0 ⟶ X-2280-613-0
Holder Ass'y, Paper

Factory modified serial numbers:

10451 and higher

The old part and new part are interchangeable.

Ref: VTRW-81-1101

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Date: Sept., 1981 **No.** 137

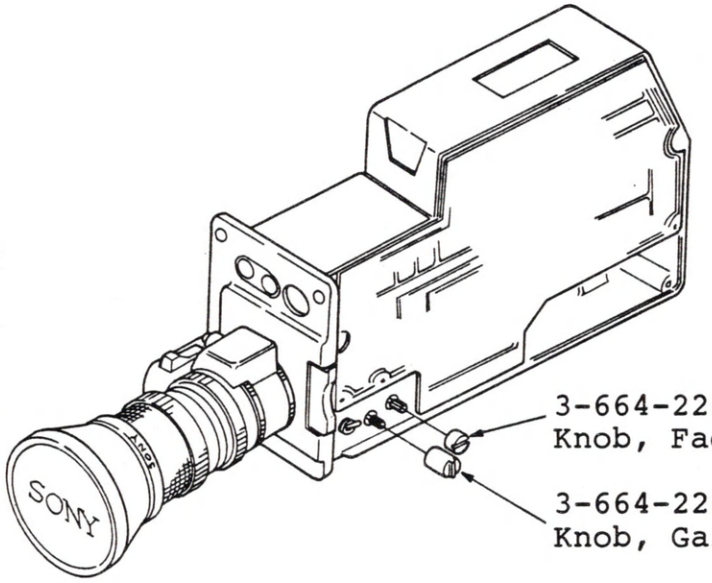
Model: DXC-1800

CAMERA

Subject:

CHANGE OF THE FADE KNOB AND THE GAIN KNOB

The FADE KNOB and the GAIN KNOB have been improved.



Factory modified serial numbers:

14841 and higher

The following table indicates the interchangeability of the old and new parts.

Part name		Part number	Serial numbers	
			10001-14840	14841 and higher
Knob, Fade	old	3-664-220-00	YES	NO
	new	X-3664-208-0	YES	YES
Knob, Gain	old	3-664-226-00	YES	NO
	new	X-3664-209-0	YES	YES

Ref: VTRW-81-1102

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Date: Sept., 1981 **No.** 138

Model: LDP-1000

Subject:

WIRELESS REMOTE USE OF THE RM-1002

When utilizing the RM-1002 as a wireless remote unit, the distance between the unit and the COMMAND SENSOR should be a minimum of 5 inches. If the distance is less than 5 inches, the COMMAND SENSOR's AMP may become saturated and will not operate.

VDP

Ref: VS-81-1026

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Date: Sept., 1981 **No.** 139

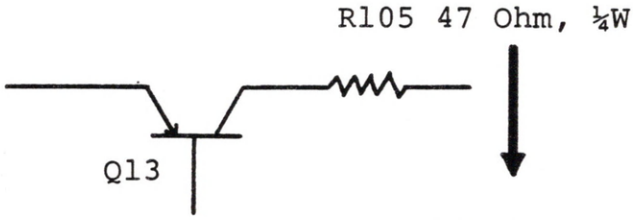
Model: DXC-6000

CAMERA

Subject:

DXF-3 REC LED

To improve the life of the DXF-3 REC LED perform the following modification on the SH-6A Board.



1K Ohms, 1/8W (p.n. 1-246-783-00)

Factory modified serial numbers:

50225, 50325
50370, 50381
50391 and higher

The Board's designation (indicated by the label on the connecter) and the Part Number have been changed as follows:

(old) SH-6A (p.n. A-7510-654-A)

↓

(new) SH-6B (p.n. A-7510-775-A)

Ref: VS-81-1029

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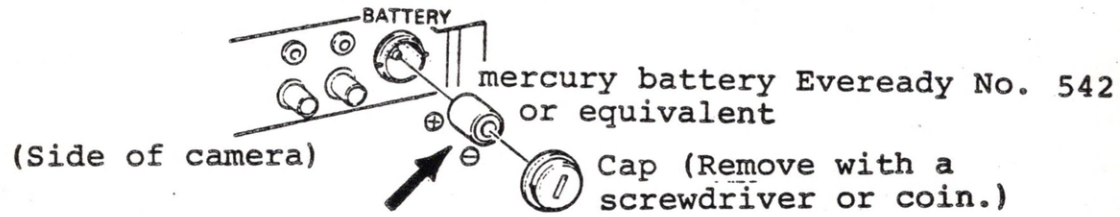
Date: Nov., 1981 **No.** 140R

Model: DXC-1800

Subject:

ADDITION OF THE MEMORY BATTERY PART NUMBER

The DXC-1800 MEMORY BATTERY is now available as a replacement part; however, when ordering the battery, allow additional time for delivery.



Battery	Part number
Eveready No. 542	1-528-086-00

NOTE: The Eveready No. 542 is not available from Union Carbide in the U.S.A.

Ref: VS-81-1036

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Date: Nov., 1981 **No.** 140R

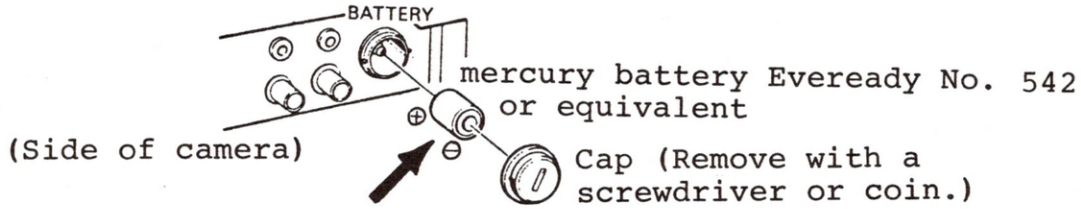
Model: DXC-1800

CAMERA

Subject:

ADDITION OF THE MEMORY BATTERY PART NUMBER

The DXC-1800 MEMORY BATTERY is now available as a replacement part; however, when ordering the battery, allow additional time for delivery.



Battery	Part number
Eveready No. 542	1-528-086-00

NOTE: The Eveready No. 542 is not available from Union Carbide in the U.S.A.

Ref: VS-81-1036

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Date: Oct., 1981 **No.** 141

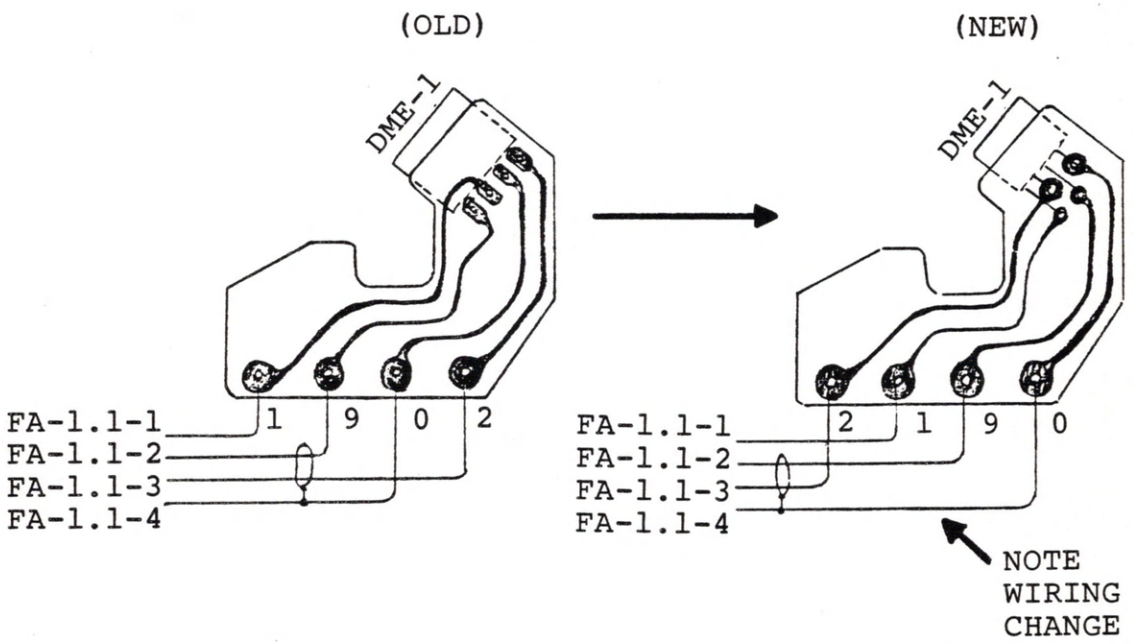
Model: VO-4800

Subject:

CHANGE OF THE DE-5 ASS'Y AND THE DME-1 SEMI-CONDUCTOR

The DE-5 ASS'Y and the DME-1 semi-conductor have been changed to improve the TAPE TRANSPORT DETECTION FUNCTION

DE-5 ASS'Y



Part no. A-6728-060-A ⟶ Part no. A-6728-060-B

NOTE: DO NOT replace only the DME-1! Replace the COMPLETE DE-5 ASS'Y. When replacing the DE-5 ASS'Y, note that the wiring configuration MUST also be changed.

Factory modified serial numbers:

19151 and higher

Ref: VS-81-1037

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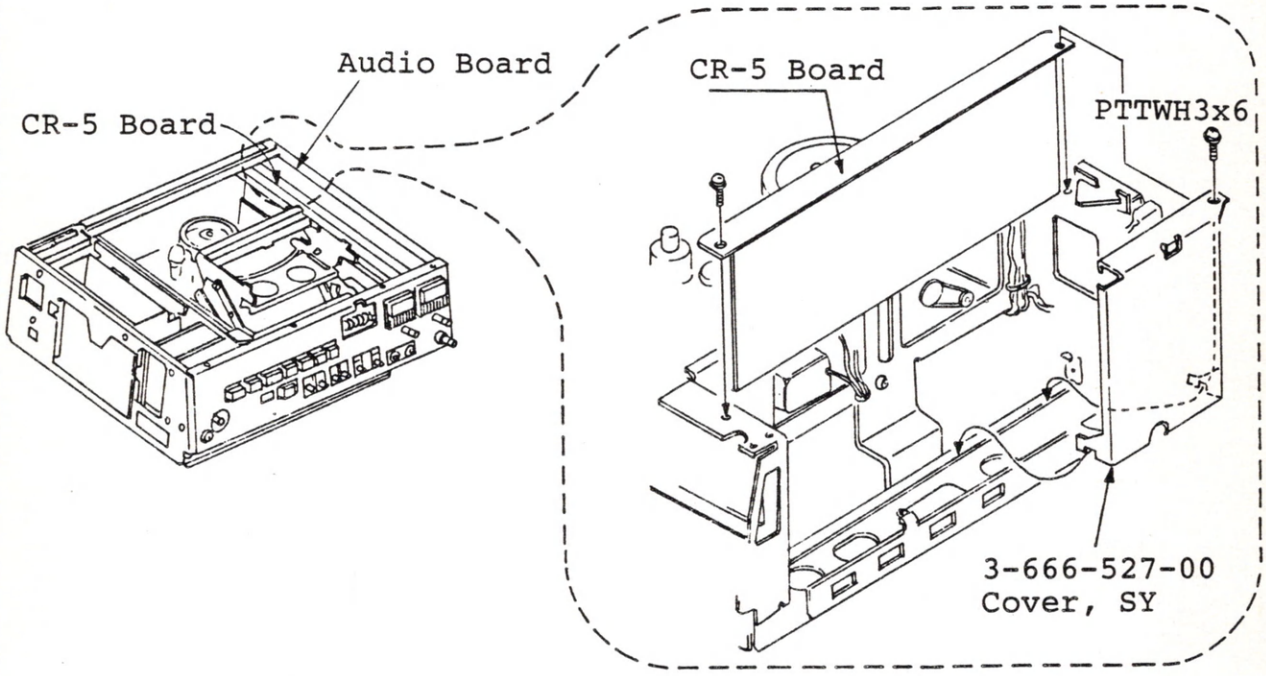
Date: Oct., 1981 **No.** 142

Model: SLO-323, SLO-323MD

Subject:

ADDITION OF AN "SY COVER"

To improve the Chroma signal when in the AUDIO DUB mode, an SY COVER has been added.



Factory modified models and serial numbers:

SLO-323.....18901 and higher
SLO-323MD.....10301 and higher

The new part is NOT compatible with Serial numbers lower than those listed above.

Ref: VTRW-81-1109

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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: Oct., 1981 **No.** 143

Model: LDP-1000

Subject:

"DE-FOCUS" DURING SCAN

If the FOCUS is OK in the PLAY mode, but "DE-FOCUS"es (goes out of focus) in the SCAN mode and/or the SEARCH mode, adjust RV-3 on the SV-39 Board fully clockwise (foil side).

Ref: VS-81-1032

VDP

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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: Nov., 1981 **No.** 144

Model: SLO-323, SLO-323MD, SLO-383, SLP-303

Subject:

CHANGE OF THE TAPE TRANSPORT DETECTION FUNCTION SEMI-CONDUCTOR

The semi-conductor has been changed to improve the TAPE TRANSPORT DETECTION FUNCTION.

SLO-323, SLO-323MD, SLP-303

DM-13 Board

(old)		(new)
DME-Ass'y A-6737-075-A	⟶	DME-Ass'y A-6737-075-B

SLO-383

DM-21 Board

(old)		(new)
Mounted Circuit Board A-6715-103-A	⟶	Mounted Circuit Board A-6715-103-B

NOTE: DO NOT replace only the DME-1! In the SLO-323, SLO-323MD, and SLP-303, replace the COMPLETE DME ASS'Y. In the SLO-383, replace the DM-21 Board.

Factory modified models and serial numbers:

SLO-323.....18901 and higher
SLO-323MD.....10401 and higher
SLO-383.....11851 and higher
SLP-303.....14901 and higher

Ref: VS-81-1038

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Date: Nov., 1981 **No.** 144

Model: SLO-323, SLO-323MD, SLO-383, SLP-303

Subject:

CHANGE OF THE TAPE TRANSPORT DETECTION FUNCTION SEMI-CONDUCTOR

The semi-conductor has been changed to improve the TAPE TRANSPORT DETECTION FUNCTION.

SLO-323, SLO-323MD, SLP-303

DM-13 Board

(old)		(new)
DME-Ass'y A-6737-075-A	→	DME-Ass'y A-6737-075-B

SLO-383

DM-21 Board

(old)		(new)
Mounted Circuit Board A-6715-103-A	→	Mounted Circuit Board A-6715-103-B

NOTE: DO NOT replace only the DME-1! In the SLO-323, SLO-323MD, and SLP-303, replace the COMPLETE DME ASS'Y. In the SLO-383, replace the DM-21 Board.

Factory modified models and serial numbers:

SLO-323.....18901 and higher
SLO-323MD.....10401 and higher
SLO-383.....11851 and higher
SLP-303.....14901 and higher

Ref: VS-81-1038

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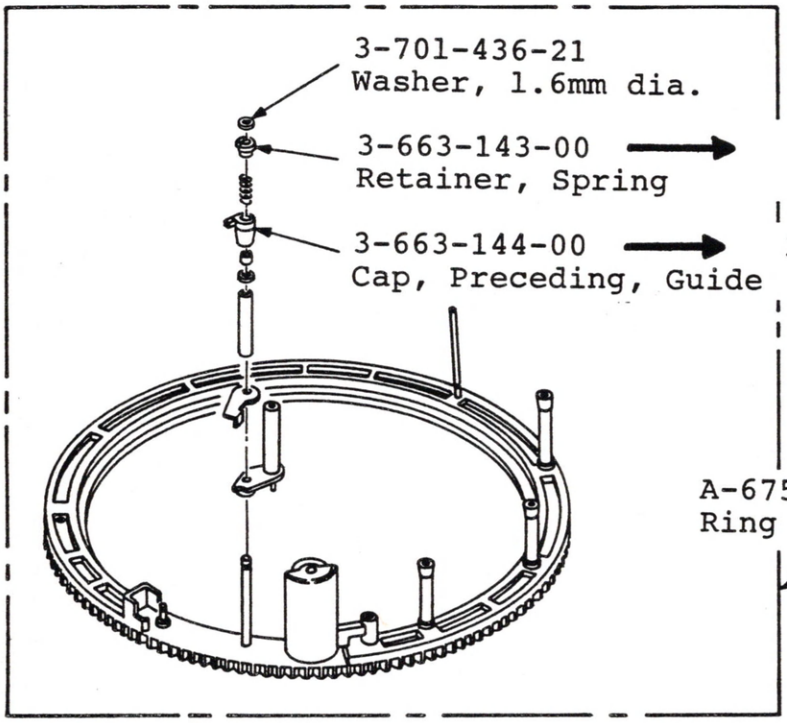
Date: Nov., 1981 **No.** 145

Model: VO-4800

Subject:

CHANGE OF THE PRECEDING GUIDE CAP AND THE SPRING RETAINER

The THREADING RING ASS'Y, PRECEDING GUIDE CAP, and SPRING RETAINER have been changed, and the 1.6mm dia. WASHER has been eliminated.



Ref: VTRW-81-1111

Factory modified serial number:

19651 and higher

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial number	
			15051-19650	19659 and higher
Ring Ass'y, Threading	old	A-6750-092-G	YES	YES
	new	A-6750-092-H	YES	YES
Cap, Preceding, Guide	old	3-663-144-00	YES	NO
	new	3-663-144-02	NO	YES
Retainer, Spring	old	3-663-143-00	YES	NO
	new	3-661-326-00	NO	YES
Washer(1.6mm dia)	old	3-701-436-21	YES	NO

NOTE: For Serial numbers 10001-15050, see Technical Bulletin No. 87.

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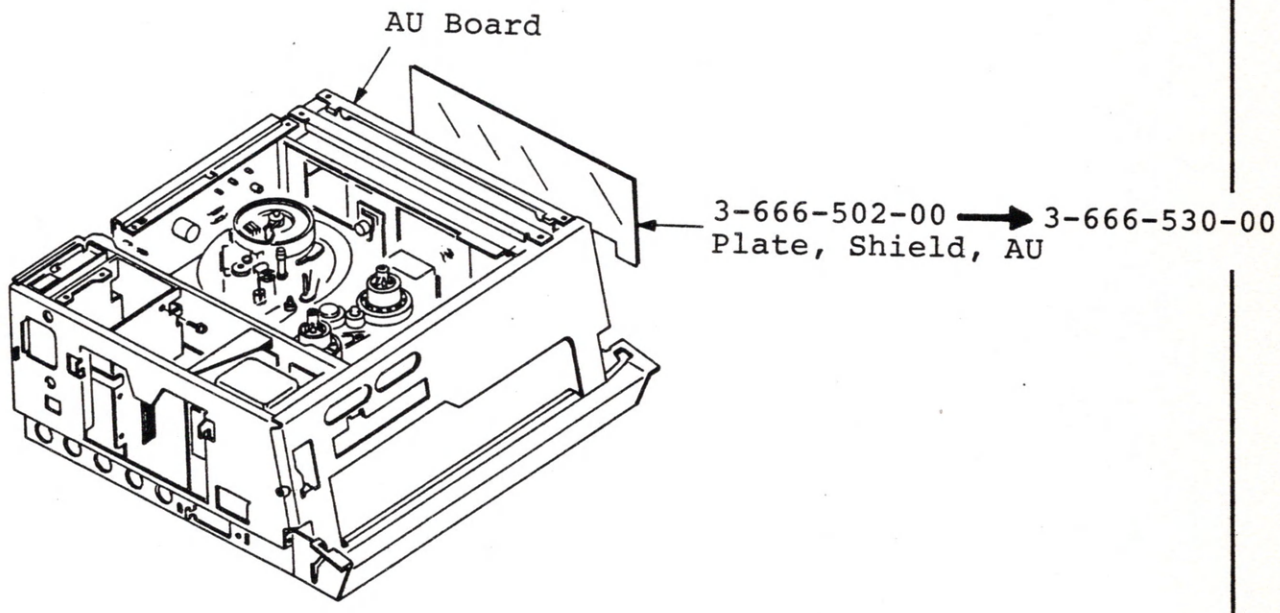
Date: Nov., 1981 **No.** 146

Model: SLO-383

Subject:

CHANGE OF THE AU SHIELD PLATE

The AU SHIELD PLATE has been changed.



Factory modified serial numbers:

11851 and higher

The following table indicates the interchangeability of the old and new parts.

	Part number	Serial numbers	
		10001-11850	11851 and higher
old part	3-666-502-00	YES	NO
new part	3-666-530-00	YES	YES

Ref: VTRW-81-1117

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Date: Dec., 1981 **No.** 147

Model: LDP-1000

Subject:

CHANGE OF AU-23 BOARD AND VP-10 BOARD

The AU-23 Board and the VP-10 Board have been changed.

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial numbers	
			10001-10300	10301 and higher
AU-23 Board	old	A-6421-009-A	YES (1)	NO
	new	A-6421-009-B	YES (2)	YES
VP-10 Board	old	A-6421-007-A	YES (1)	NO
	new	A-6421-007-B	YES (2)	YES

NOTE: (1) Must be used together with A-6421-009-A/A-6421-007-A.
(2) Must be used together with A-6421-009-B/A-6421-007-B.

Ref: VS-81-1039

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Date: Dec., 1981 **No.** 147

Model: LDP-1000

Subject:

CHANGE OF AU-23 BOARD AND VP-10 BOARD

The AU-23 Board and the VP-10 Board have been changed.

The following table indicates the interchangeability of the old and new parts.

		Part number	Serial numbers	
			10001-10300	10301 and higher
AU-23	old	A-6421-009-A	YES (1)	NO
Board	new	A-6421-009-B	YES (2)	YES
VP-10	old	A-6421-007-A	YES (1)	NO
Board	new	A-6421-007-B	YES (2)	YES

NOTE: (1) Must be used together with A-6421-009-A/A-6421-007-A.
(2) Must be used together with A-6421-009-B/A-6421-007-B.

Ref: VS-81-1039

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Date: Dec., 1981 **No.** 148

Model: VO-5850

Subject:

SUPERIMPOSED FRAME AT THE CUT-IN POINT

When in MANUAL ASSEMBLE or INSERT, if one frame at the CUT-IN POINT is superimposed on the original frame, perform the following modification.

BS-3 Board

Change:

R26	10K ohms	330K ohms, ¼W, Carbon, 5% 1-246-533-00
C11	150p	0.027μF/50WV, 5%, Mylar 1-108-589-00

Add:

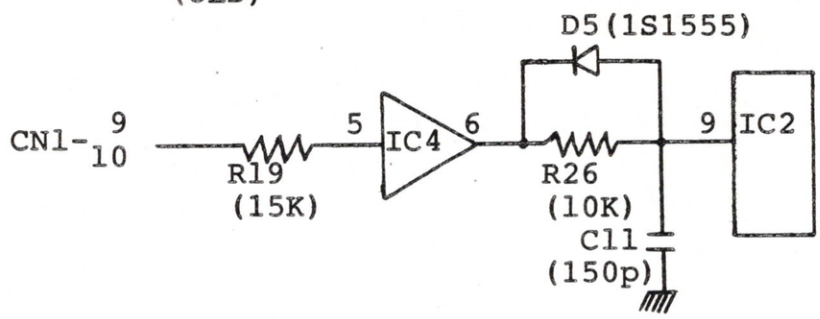
R27	15K ohms, ¼W, Carbon, 5% 1-246-501-00

NOTE: On Boards with suffixes "-11" and "-12", the R26, D5, and C11 are attached on the foil side of the board.

Ref: VS-81-1041

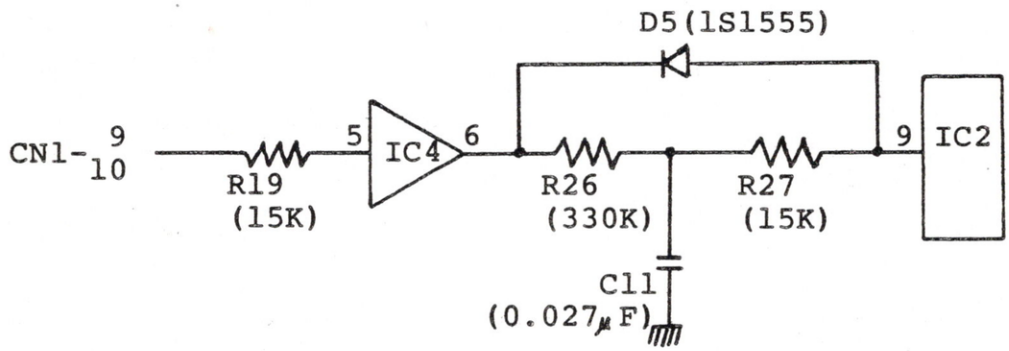
BS-3 Board

(OLD)





(NEW)



Factory modified serial numbers:

10291 and higher

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Date: Jan., 1982 **No.** 149

Model: DXC-6000

CAMERA

Subject:

DF BOARD AND SG BOARDS

CAUTION

If the POWER is turned ON while either of the SG Boards is removed, the HD Pulse will no longer be supplied to the DF Board, and R71 will be damaged.

Ref: VS-81-1046

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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: Feb., 1982 **No.** 150

Model: VO-5850

Subject:

CHANGE OF IC7 ON THE SV-31 BOARD

IC-7 on the SV-31 Board has been changed.

(OLD)		(NEW)
CX-194A 8-751-940-01	➡	CX-194A-2 8-751-940-02

NOTE: When the IC is replaced, the unit must be readjusted. See Section 4-8 (page 4-6) in the Service Manual for the correct procedure.

Ref: VTRW-81-1124

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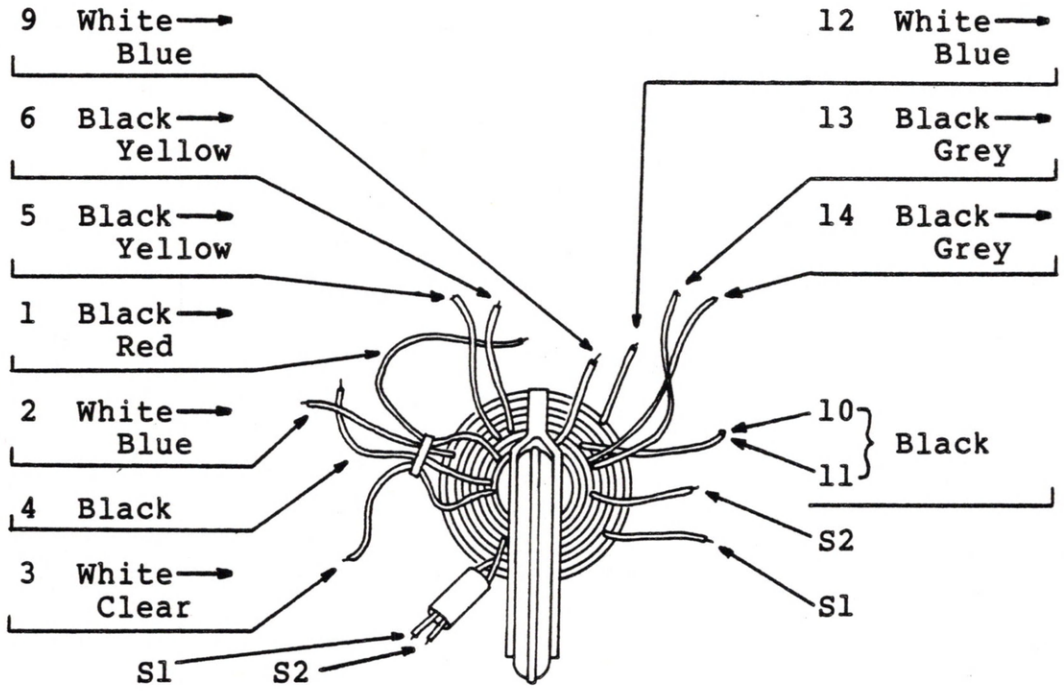
Date: March, 1982 **No.** 151

Model: CMA-7/-7CE

CAMERA

Subject: CHANGE OF THE COLOR CODING FOR THE POWER TRANSFORMER (T3) WIRING DIAGRAM

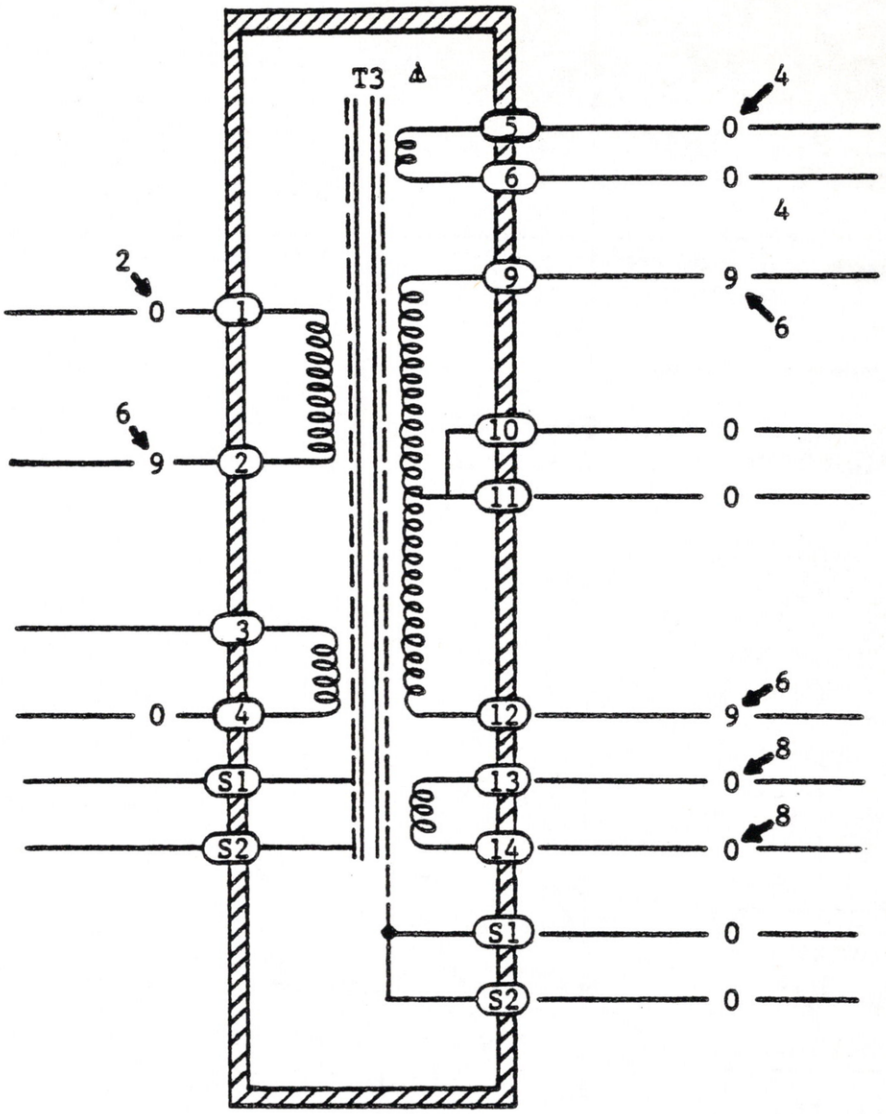
The color coding for the wiring diagram of the POWER TRANSFORMER (T3) has been changed.



T3 (TOP VIEW)

Factory modified serial numbers:

12151 and higher


T3
A
2
0
1
6
9
2
3
0
4
S1
S2
5
6
9
10
11
12
13
14
S1
S2
4
0
0
4
9
9
6
0
0
6
9
8
0
8
0
0
0

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Date: March, 1982 **No.** 152

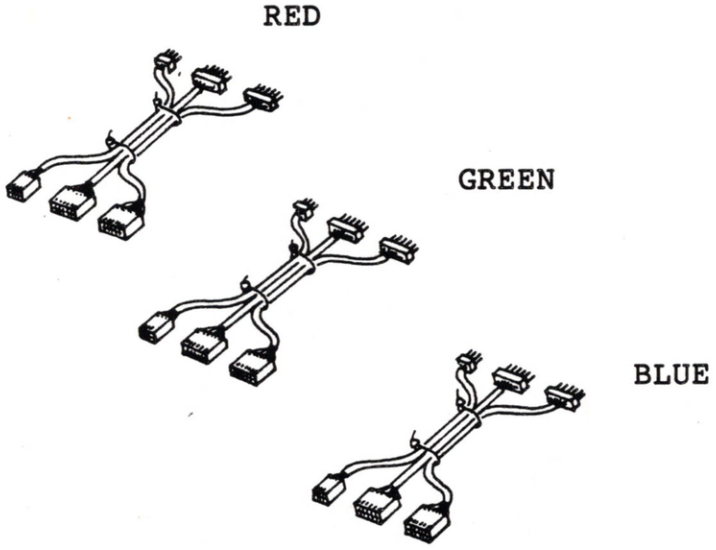
Model: DXC-6000

CAMERA

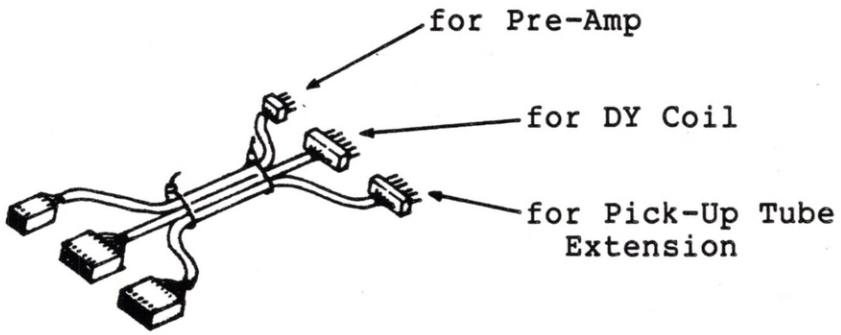
Subject: OPITCAL BLOCK EXTENSION CABLES

The OPTICAL BLOCK EXTENSION CABLES which are required when performing the DY Coil Axis Adjustment are now available as:

(1) A set of three three-cable units
(Part No. J-6023-850-A)



(2) A single three-cable unit
(Part No. J-6022-720-A)

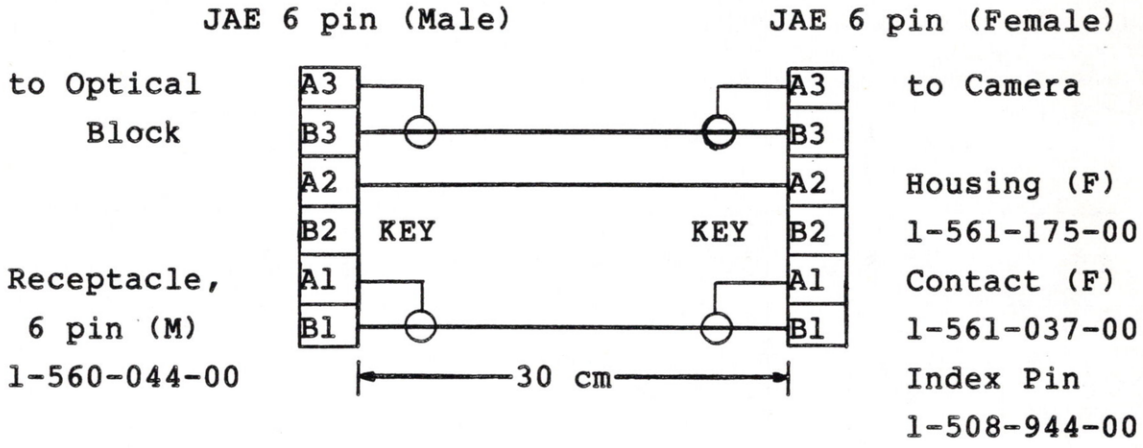


Ref: VTRW-82-1018

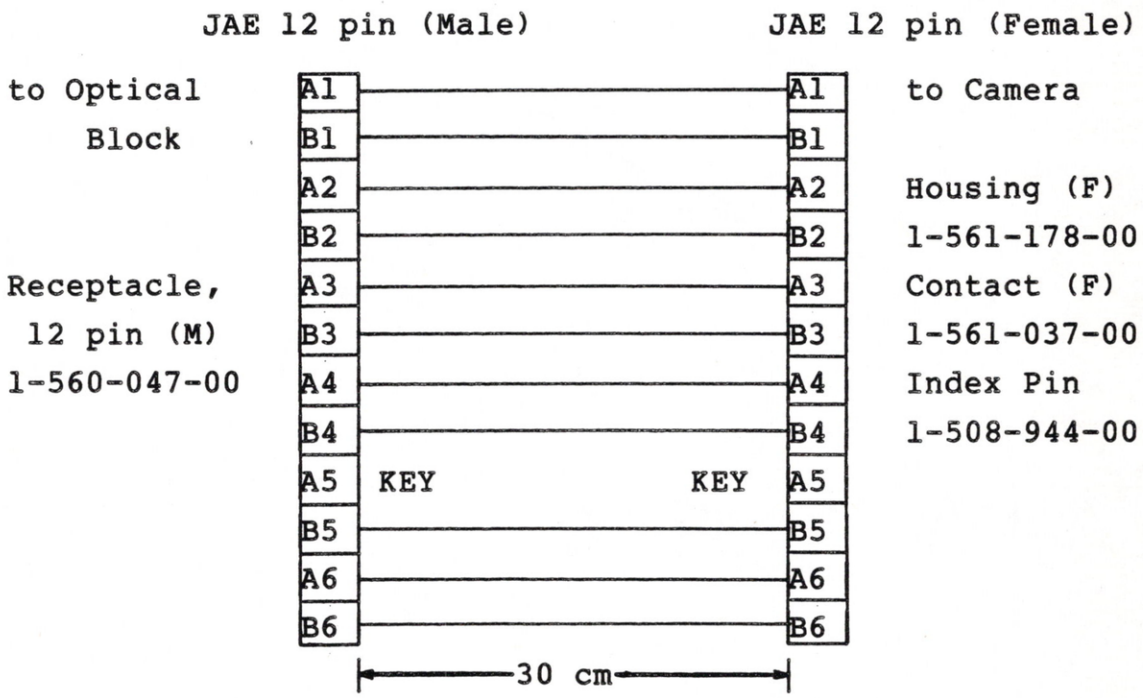
WIRING DIAGRAM

(Part No. J-6022-720-A)

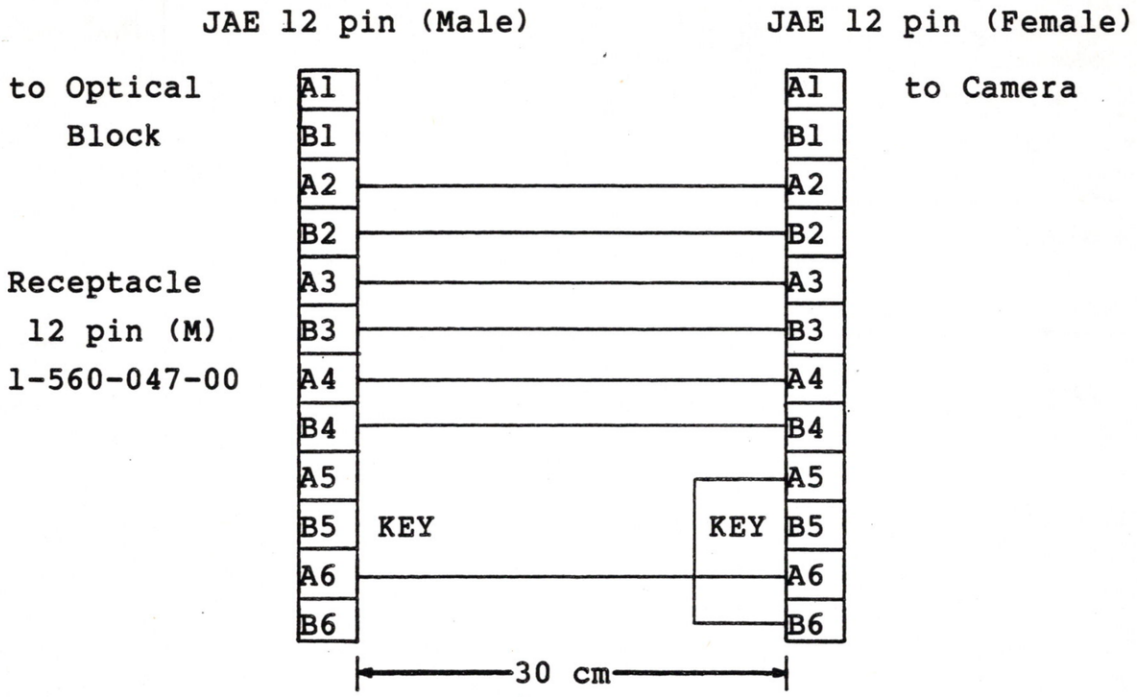
Pre-Amp Extension Cable



DY Coil Extension Cable



Pick-Up Tube Socket Extension Cable



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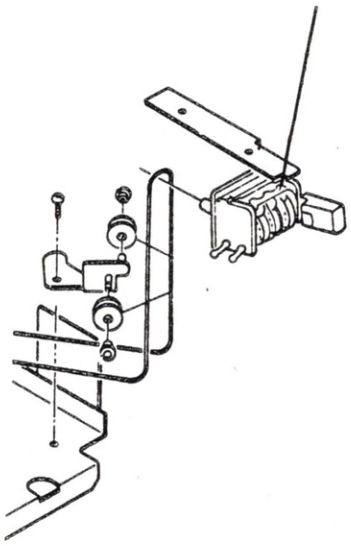
Date: March, 1982 **No.** 153

Model: SLO-320, SLP-300

Subject: TAPE COUNTER PART NUMBER CORRECTION

Please make the following correction in the Service Manual.

1-548-514-XX ⟶ 1-548-515-00



Affected models and serial numbers:

SLO-320..... ALL S/N
SLP-300.....24300 and lower

**For serial numbers 24301 and higher, see Technical Bulletin No. 40.

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SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

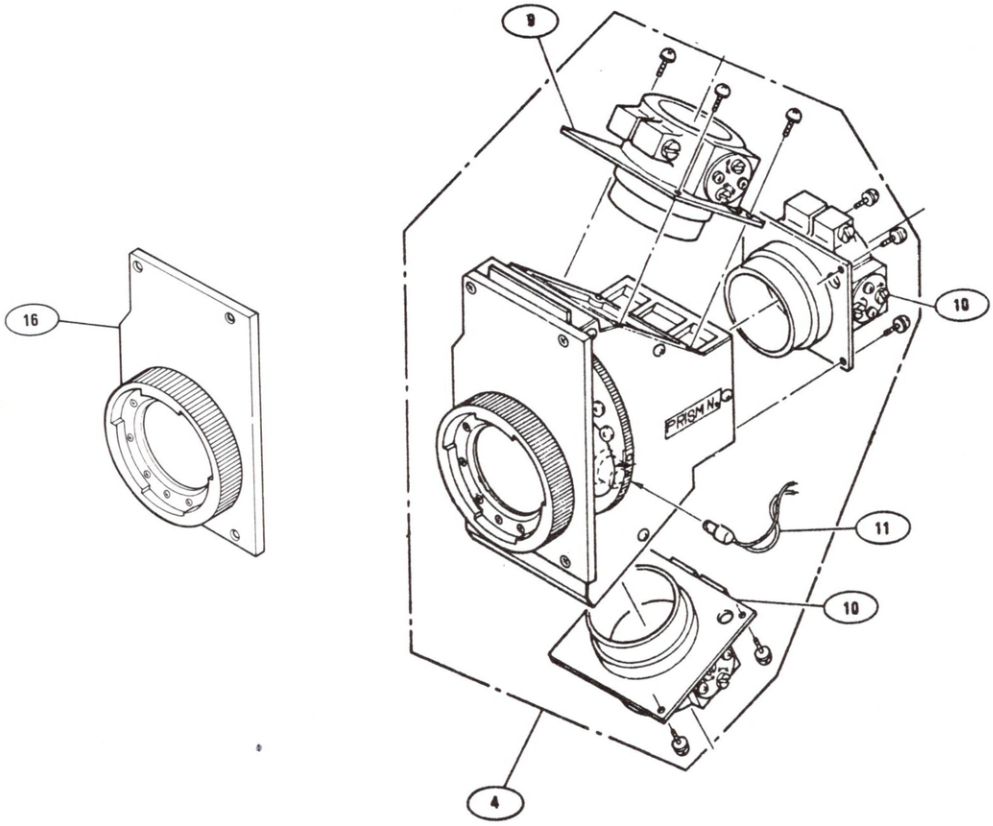
Date: Oct., 1982 **No.** 154R

Model: DXC-6000

CAMERA

Subject:
ADDITION OF THE CANON PRISM PART NUMBERS

The Part Numbers in the Service Manual are for the Fujinon Prism ONLY. Therefore, please add the following Part Numbers for the CANON PRISM to the Service Manual.



No.	Part Number	Description
4	1-547-082-00	Prism, Optical (PY-05)
9	3-706-586-00	Holder, DY (For B)
10	3-706-587-00	Holder, DY (For G and R)
11	3-706-610-00	Lamp, Bias
16	3-706-611-00	Panel, Front

Ref: VTRW-82-1024

The CANON OPTICAL PRISM and the FUJINON OPTICAL PRISM are interchangeable. However, their individual parts (ie, Front Panel, DY Coil, etc.) are NOT interchangeable. Therefore, be certain to confirm the make of the parts being utilized.

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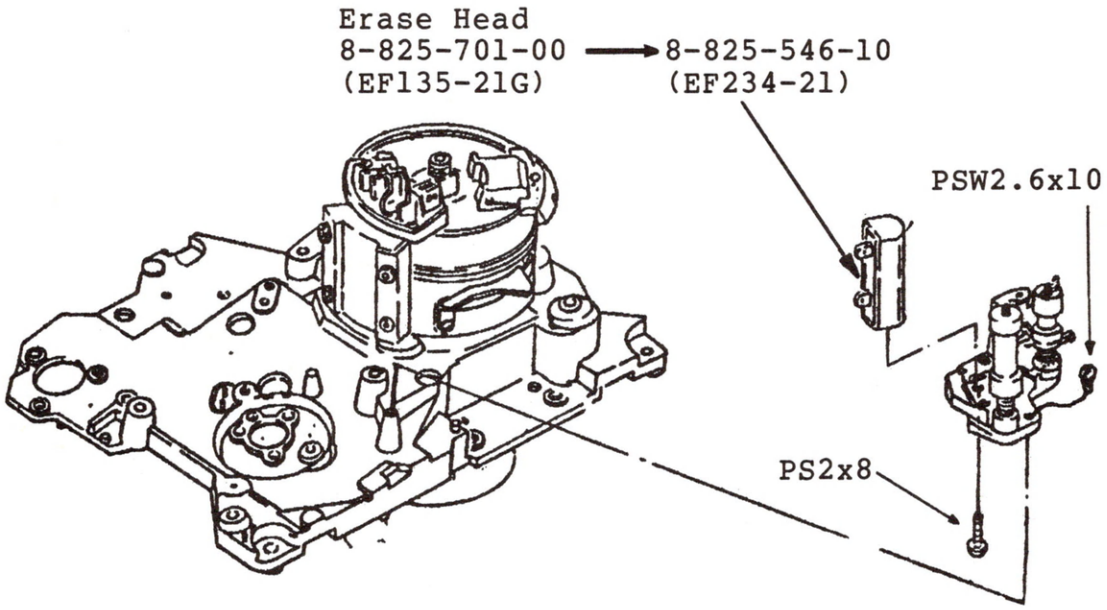
VIDEO PRODUCTS COMPANY
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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: April, 1982 **No.** 155

Model: SLO-383

Subject:
CHANGE OF THE ERASE HEAD

The ERASE HEAD has been changed.



The new part is compatible with all serial numbers.

Factory modified serial numbers:

13251 and higher

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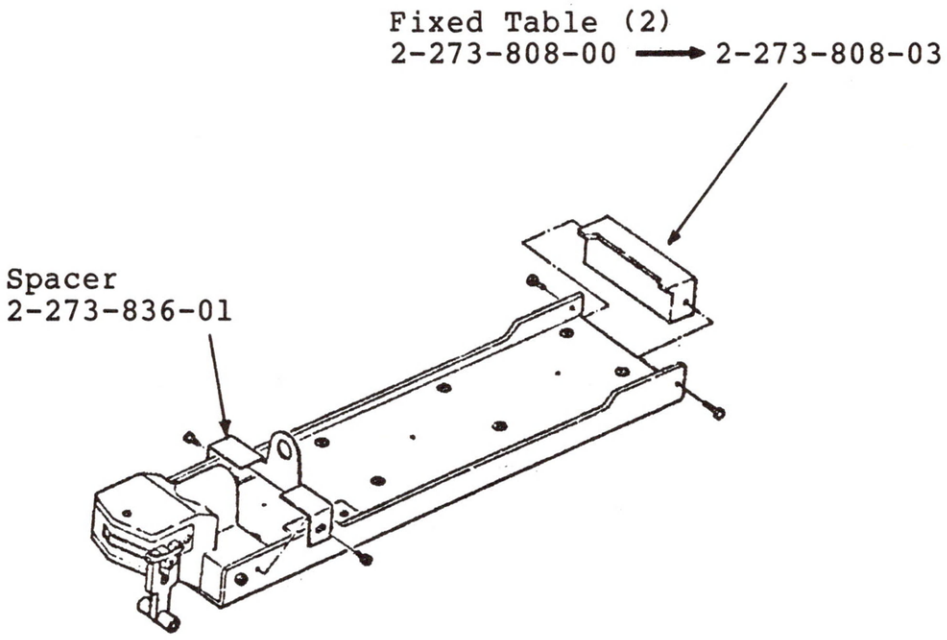
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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: April, 1982 **No.** 156

Model: DXC-6000 (VCT-300)

Subject:
CHANGE OF THE VCT-300 FIXED TABLE (2) AND ADDITION OF A SPACER

The FIXED TABLE (2) of the VCT-300 Tripod Attachment has been improved, and a SPACER has been added.

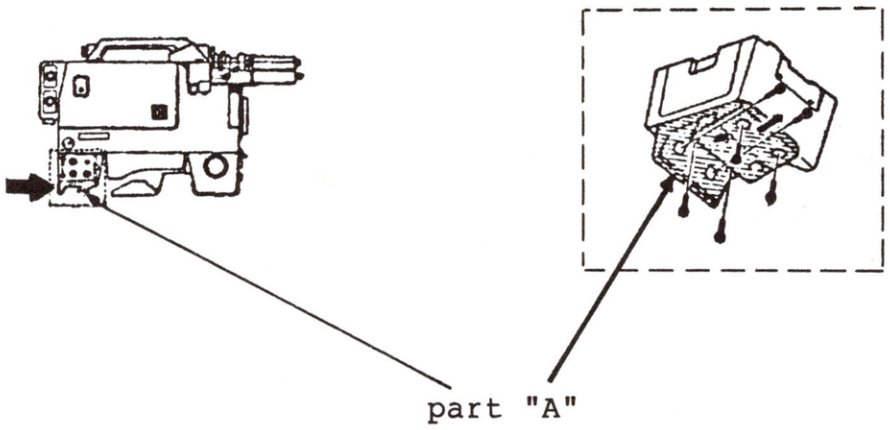


The new parts are compatible with all serial numbers.

However, if the modification is made, the following adjustment must also be performed on the camera.

Adjustment

Loosen the screws** which fasten part "A" to the camera.



Move part "A" in the direction indicated by the arrow, and then retighten the screws.

Factory modified models and serial numbers:

DXC-6000.....50841 and higher
(VCT-300.....11301 and higher)

**For factory modified serial numbers, the Allen wrench (part number 7-721-130-20) which is needed to loosen the fixing screws, is supplied with the VCT-300.

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Date: April, 1982 No. 157

Model: DXC-6000

CAMERA

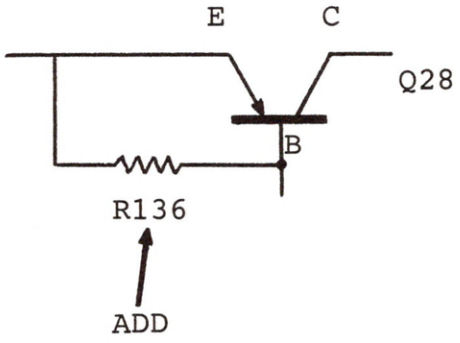
Subject:

VIDEO OUTPUT BREAKS UP

When a DXC-6000 and a CCU-6000 are connected and the camera's OUTPUT SW is set to BARS, if the CCU's Mode SW is set to CAM after having been repeatedly switched between BARS and CAM, the picture may break up. If this occurs, perform the following modification.

Modification

EN-6 Board



R136: 4.7 ohms
part no. 1-246-791-00

Factory modified serial numbers:

50689 and higher

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Date: April, 1982 No. 158

Model: (SEE BELOW)

Subject:

CHANGE OF THE THREADING MOTOR**

The THREADING MOTOR has been changed, and a Modification Kit has been added.

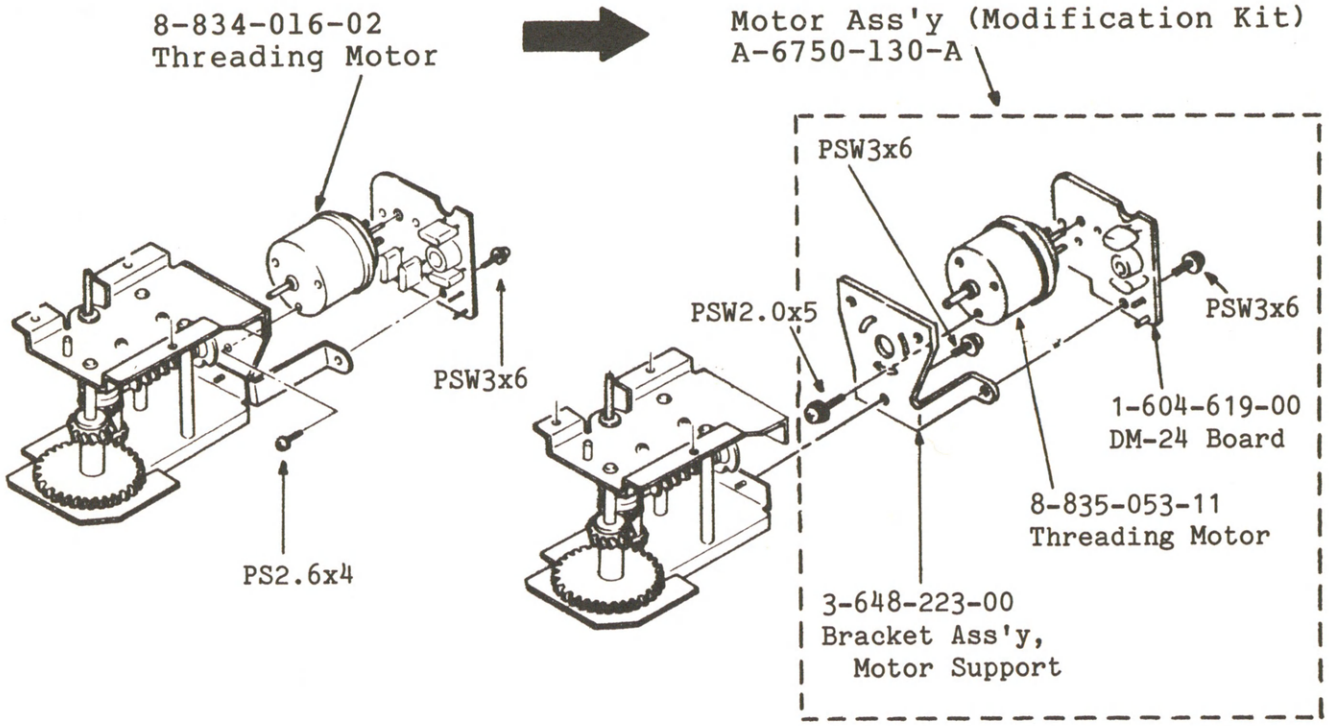
Affected models and serial numbers:

LVO-7000	10390 and lower
TVO-9000	30030 and lower
U-matic 1000 Series	ALL S/N
VO-2600	ALL S/N
VO-2610	28090 and lower
VO-2611	10920 and lower
VO-2800	16850 and lower
VO-2850	ALL S/N
VO-2850A	ALL S/N
VO-2860	ALL S/N
VO-2860A	14010 and lower
VP-2000	ALL S/N
VP-2010	19730 and lower
VP-2011	16350 and lower
VP-2260	13300 and lower

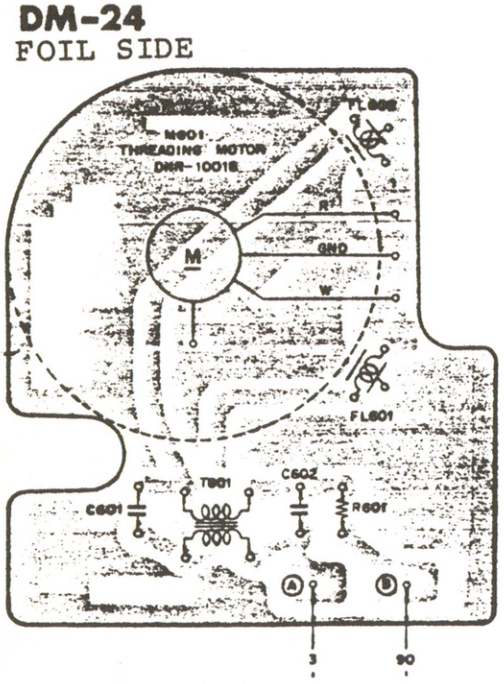
**Also Refer to Technical Bulletin No. 103

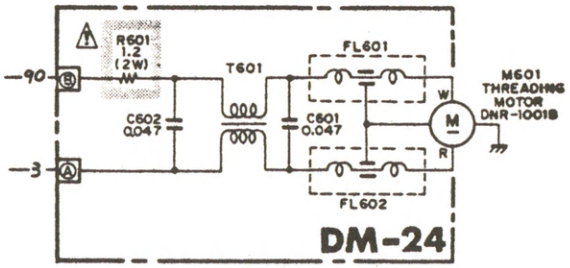
MODIFICATION

LVO-7000, TVO-9000, and U-matic 2000 Series



DM-24 Board

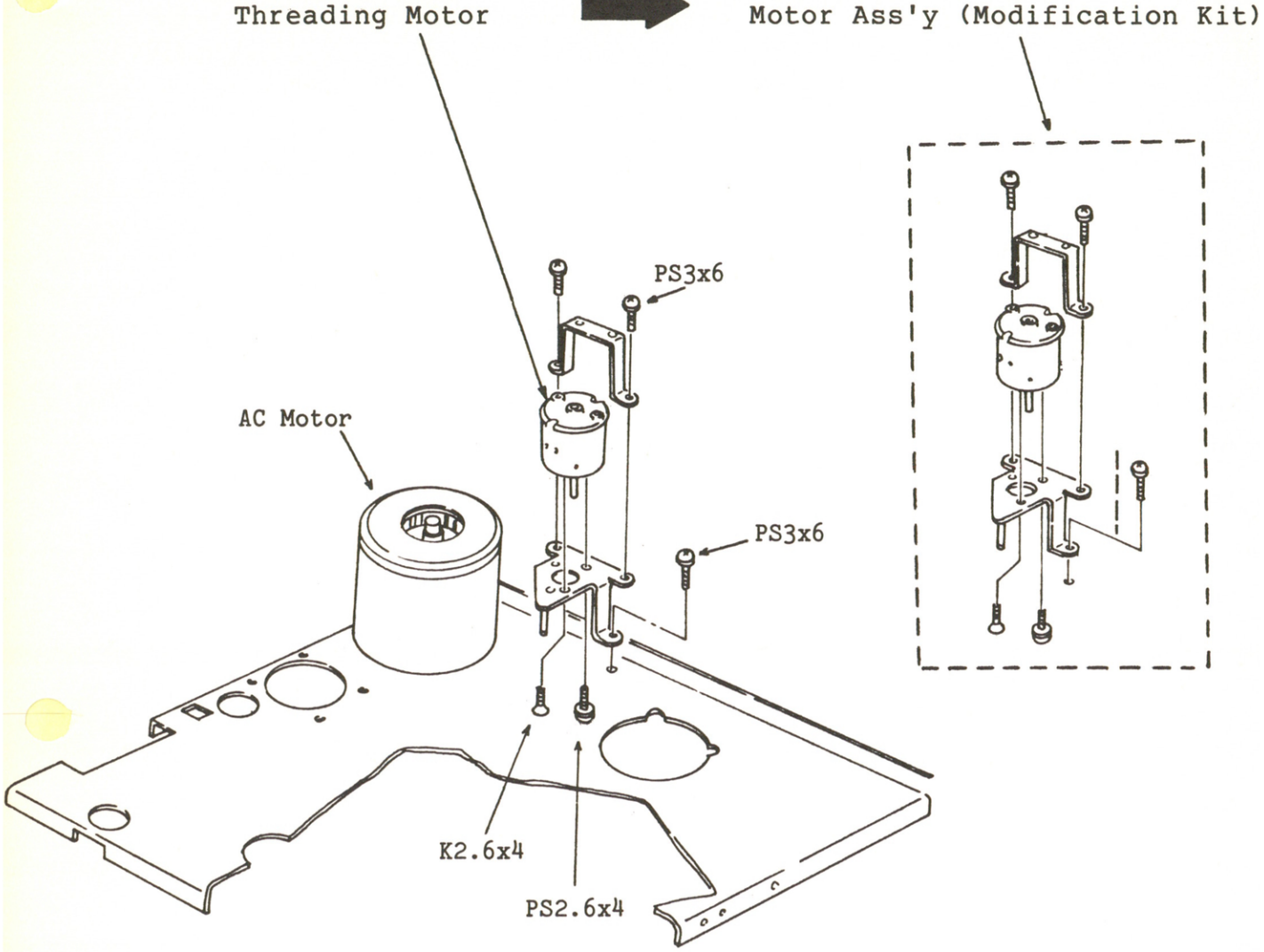




	1-604-619-00	PRINTED CIRCUIT BOARD "DM-24"
C601	1-161-059-00	CERAMIC 0.047 10% 50V
C602	1-161-059-00	CERAMIC 0.047 10% 50V
FL601	1-235-056-00	LINE FILTER
FL602	1-235-056-00	LINE FILTER
M601	8-835-053-11	DNR-1001B "THREADING"
⚠R601	1-207-907-00	WIREWOUND 1.2 10% 2W
T601	1-427-265-00	NOISE FILTER

8-834-016-02
Threading Motor

A-6737-097-A
Motor Ass'y (Modification Kit)



There is no interchangeability between the old and new THREADING MOTORS alone.

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Date: May, 1982 **No.** 159

Model: VO-5850

Subject:

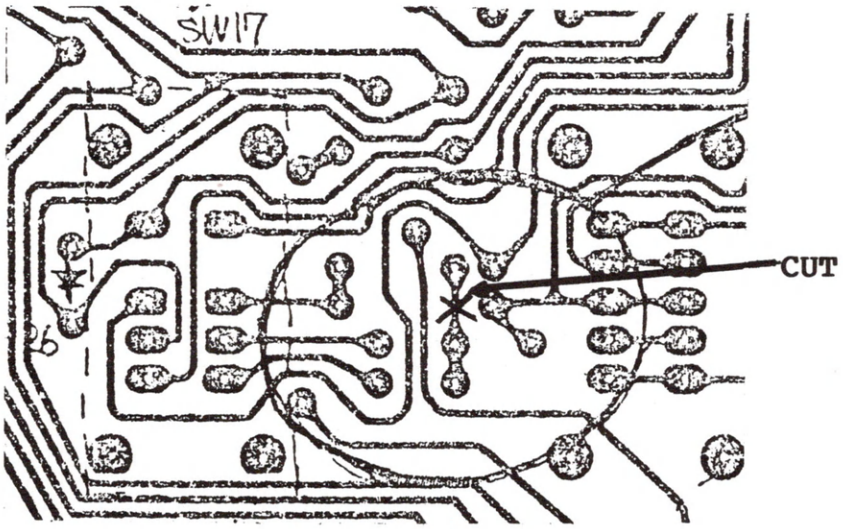
INPUT SELECTOR SWITCH

When changing the INPUT SELECTOR SWITCH from TV to LINE, or from LINE to DUB, if the Microprocessor resets, perform the following modification.

Modification

KY-13 Board

Cut the pattern at the point indicated.



On the foil side, add:

270 ohms ± 5%, 1/4 W, carbon
part no. 1-246-459-00

Cover the resistor with clear tubing and glue it to the board.

Affected serial numbers:

10141-10440

Ref: VS-81-1040

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Date: May, 1982 No. 160

Model: VO-5850

Subject:

WOW & FLUTTER IN THE TRACKING MULTI

If there is increased WOW & FLUTTER in the TRACKING MULTI **ONLY** when the Tracking Control Volume position is slightly to the right of the center detent position, perform the following modification.

Modification

SV-31 Board

Delete: C96 (100pF)

Location coordinates for Boards with suffixes:

"-11", "-12", "-21" } 6.E

"-13", "-22" } 8.F

After deleting C96, it is not necessary to readjust the SERVO.

Affected serial numbers:

10413-10440
10525 and higher

Ref: VS-81-1043

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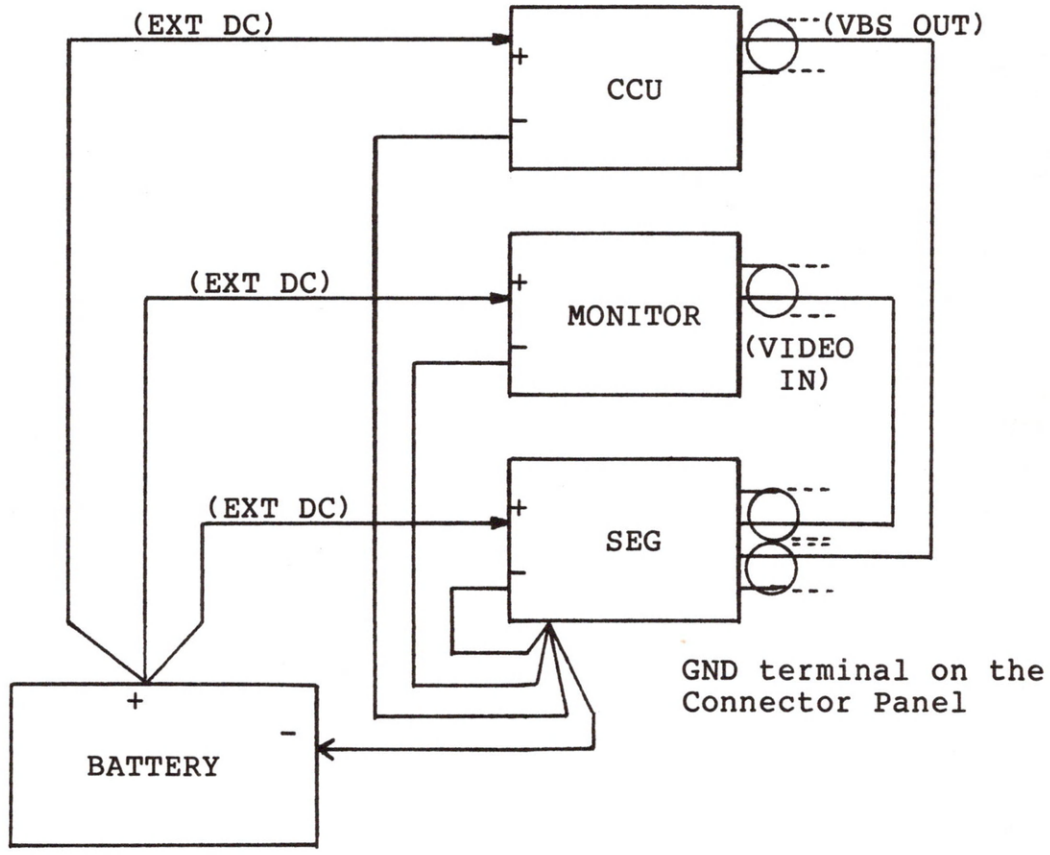
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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: May, 1982 **No.** 161

Model: SEG-2000

Subject:
SETTING UP A SYSTEM WITH AN SEG-2000 ON EXT DC

When setting up an EFP system with an SEG-2000 using an external battery as the power source, be certain to hook up the GND lines in the manner shown below.



NOTE: Use a short power cable with a low R value.

PERIPHERAL

Ref: VS82-1011

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Date: May, 1982 | No. 162

Model: SLO-323, SLP-303

Subject:

FWD MODE AFTER LONG PAUSE

If the unit goes into the FWD mode after LONG PAUSE, perform the following modification.

Modification

SLO-323: SY-58 Board (A-6716-144-A)

SLP-303: SY-58P Board (A-6716-156-A)

ADD:

Q22	2SC1364 (8-729-663-47)
R133	10K ohms, 1/8 W, carbon (1-246-795-00)
R134	100K ohms, 1/8 W, carbon (1-246-807-00)
R28	10K ohms, 1/8 W, carbon (1-246-795-00)

CHANGE:

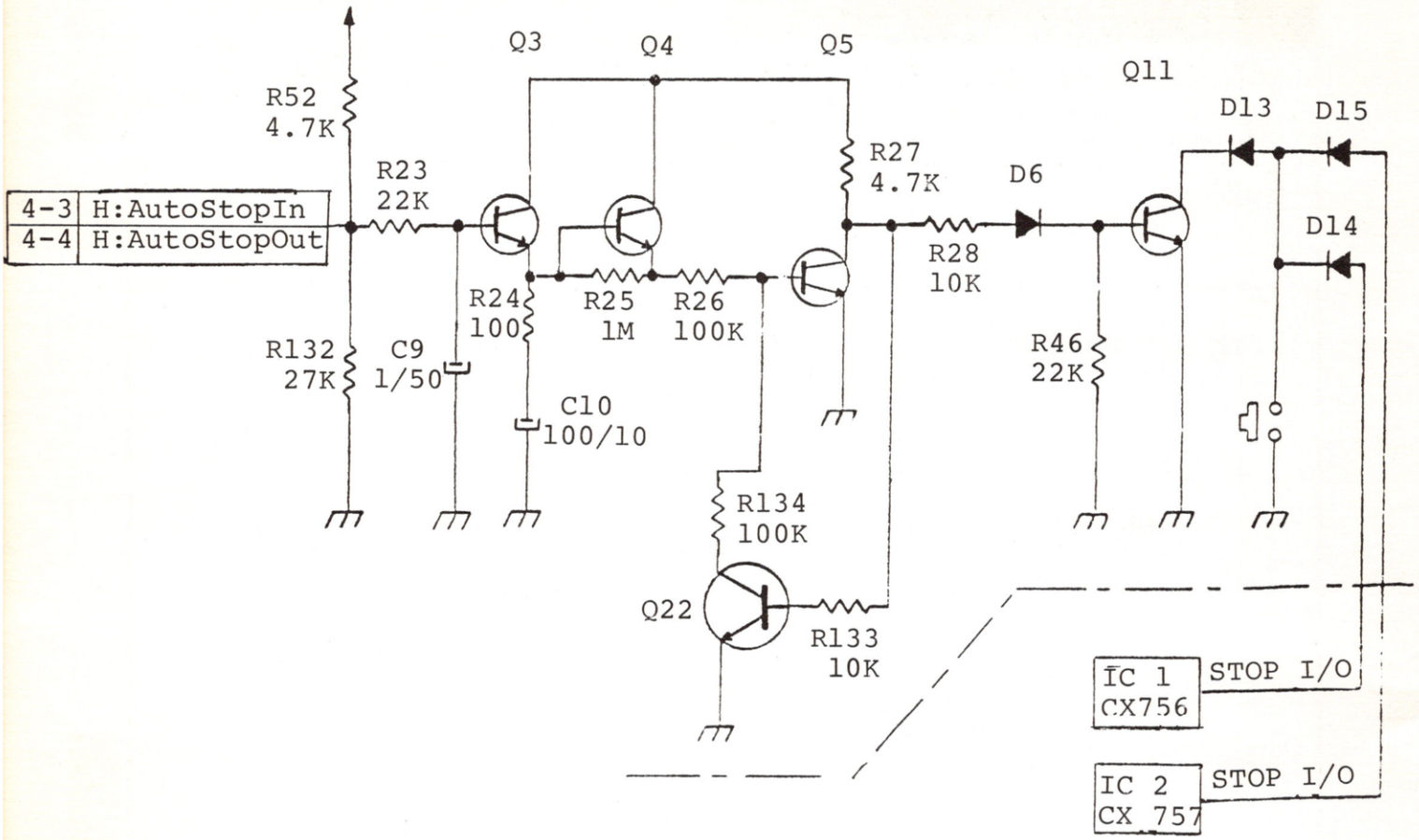
SLO-323

C9
4.7/25 → 1/50, electrolytic
(1-123-352-00)

SLP-303

C9
10/25 → 1/50, electrolytic
(1-123-352-00)

Ref: VS-82-1013


Q3
Q4
Q5
Q11
R52
4.7K
R23
22K
R27
4.7K
D6
D13
D15
D14
4-3 H:AutoStopIn
4-4 H:AutoStopOut
R24
100
R25
1M
R26
100K
R28
10K
R132
27K
C9
1/50
C10
100/10
R46
22K
R134
100K
Q22
R133
10K
IC 1
CX756
STOP I/O
IC 2
CX 757
STOP I/O

(SY-59 Mt)

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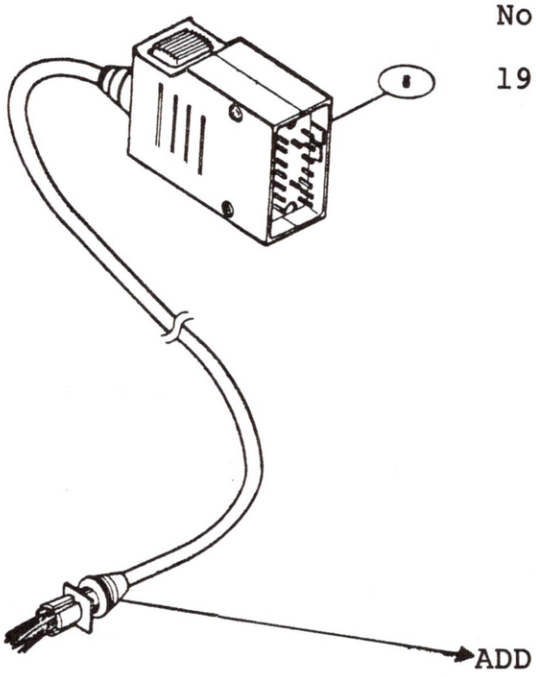
Date: May, 1982 **No.** 163

Model: RM-V5

Subject:
SERVICE MANUAL CORRECTION

Make the following additions and changes in your Service Manual.

Page 3-3, and 3-4: EXPLODED VIEW



No.	Parts No.	Description
19	2-242-609-00	Bushing, Cord

Page 3-8: FRAME Parts List

ADD:

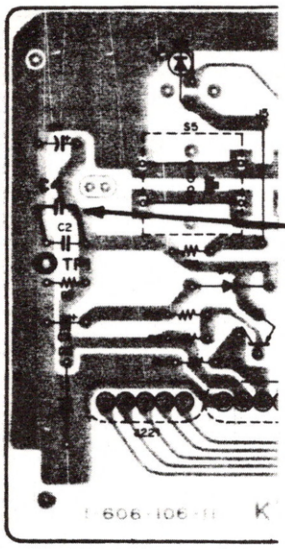
Ref. No.	Parts No.	Description
CN-1	1-556-041-00	Cable, 20 pin "Remote"
	1-508-685-00	Plug, 20 pin, Male

PERIPHERAL

Ref: VTRW-82-1035

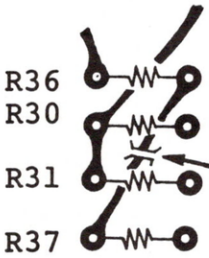
Page 2-7: Printed Circuit Board Changes

(i) KY-22 Board



ADD: C4 parallel to C2 on the foil side.

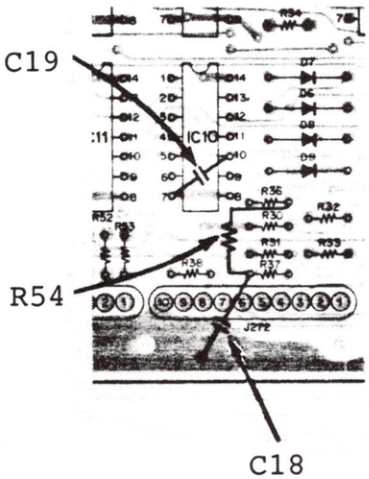
(ii) CT-27 Board



Cut the pattern connecting R36 and R37 on the component side.

On the foil side, ADD:

1. C19 between pins 10 and 7 of IC10.
2. R54 between R36 and R37.
3. C18 between R37 and GND.



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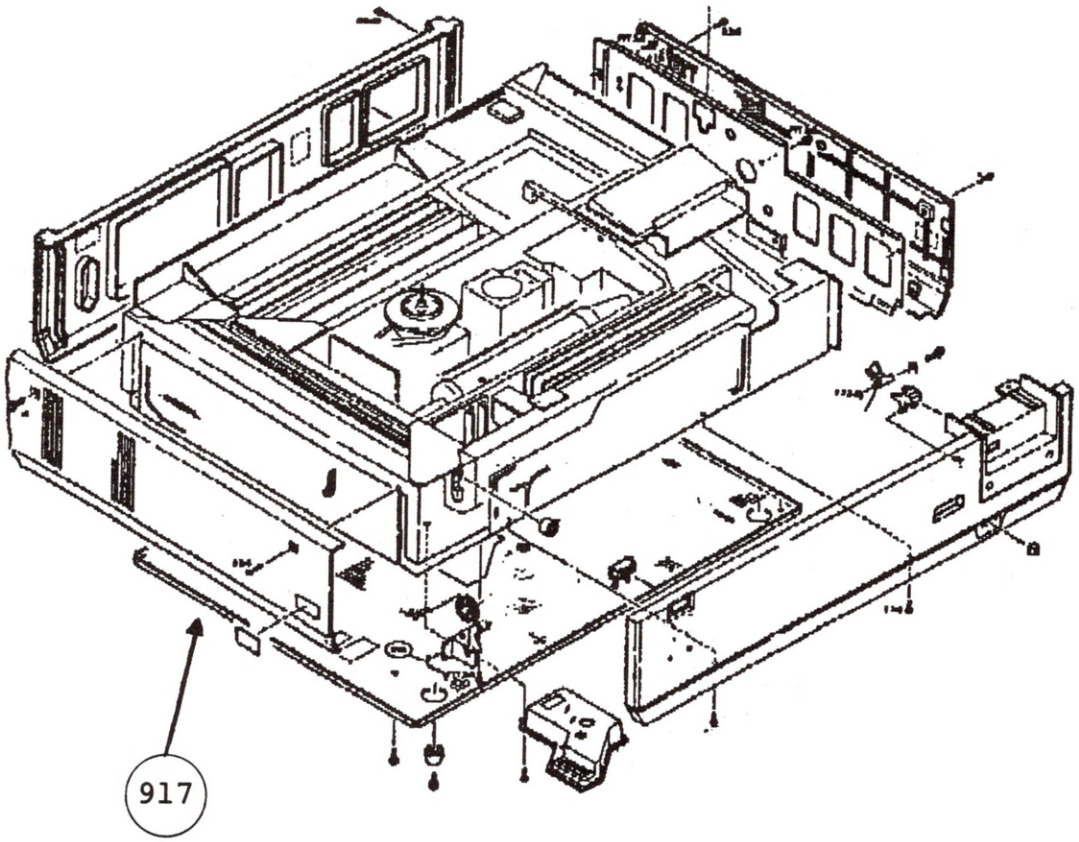
Date: May, 1982 **No.** 164

Model: LDP-1000

Subject:

ADDITION OF THE REFERENCE NUMBER FOR THE BOTTOM PLATE

Please add the Reference Number for the Bottom Plate (part no. 3-667-590-05) to your Service Manual (pages 13-19 and 13-20).



No.	Part Number	Description
917	3-667-590-05	Plate, Bottom

VDP

Ref: VTRW-82-1046

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Date: May, 1982 **No.** 165

Model: LDP-1000

Subject: CHANGE OF THE PART NUMBERS FOR THE DETECTOR ASS'Y, THE OPTICAL BLOCK, THE LASER ASS'Y, AND THE UNIT ASS'Y

The Part Numbers for the Dectector Ass'y, the Optical Block, the Laser Ass'y, and the Unit Ass'y have been changed as indicated below.

Part Description	Part Number	
	Old	New
Detector Ass'y	A-6491-004-A	A-6491-015-A
Optical Block KHS-100A	A-6490-001-A	A-6490-002-A
Laser Ass'y	A-6491-002-A	A-6491-014-A
Unit Ass'y	A-6491-011-A	A-6491-013-A

VDP

Ref: VTRW-82-1047

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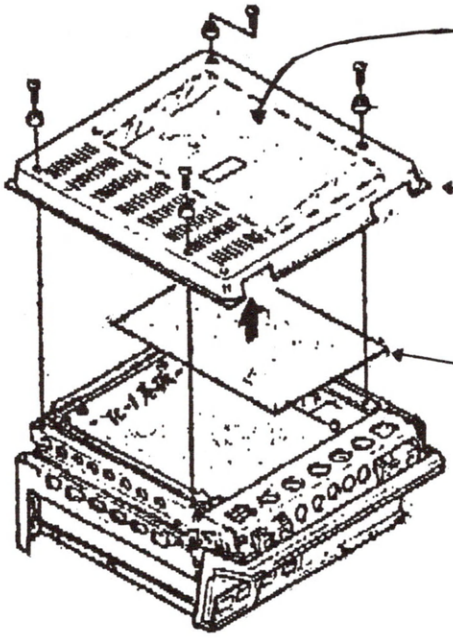
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47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: May, 1982 **No.** 166

Model: SLO-383

Subject: ADDITION OF A PC-BOARD COVER AND DELETION OF TP's

A PC-Board Cover has been added, and TP404, TP405, and TP412 have been deleted from the YC-1 Board.



The new part is compatible with all serial numbers.

Factory modified serial numbers:

12351 and higher

Ref: VTRW-82-1049

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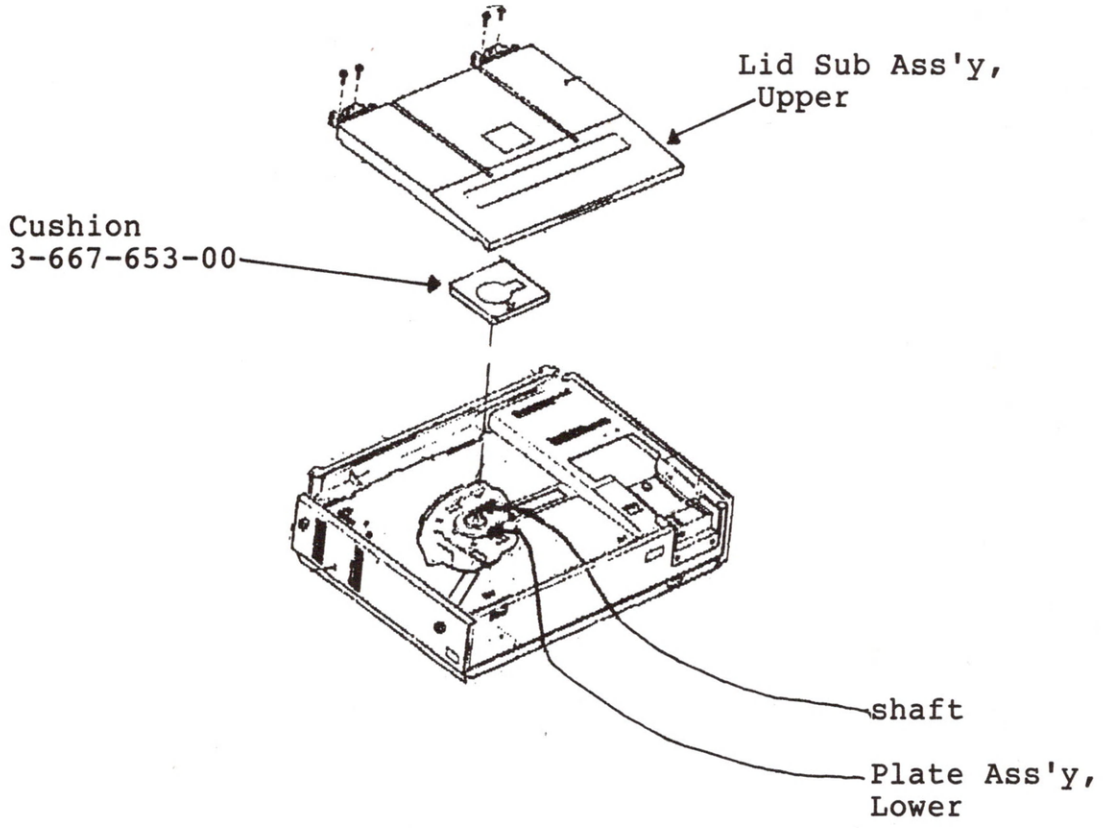
Date: May, 1982 **No.** 167

Model: LDP-1000

Subject:

ADDITION OF A CUSHION

A Cushion has been added for use during shipment.



The new part is compatible with all models and serial numbers.

Factory modified models and serial numbers:

LDP-1000.....21181 and higher
LDP-1000(FD).....14021 and higher

VDP

Ref: VTRW-82-1053

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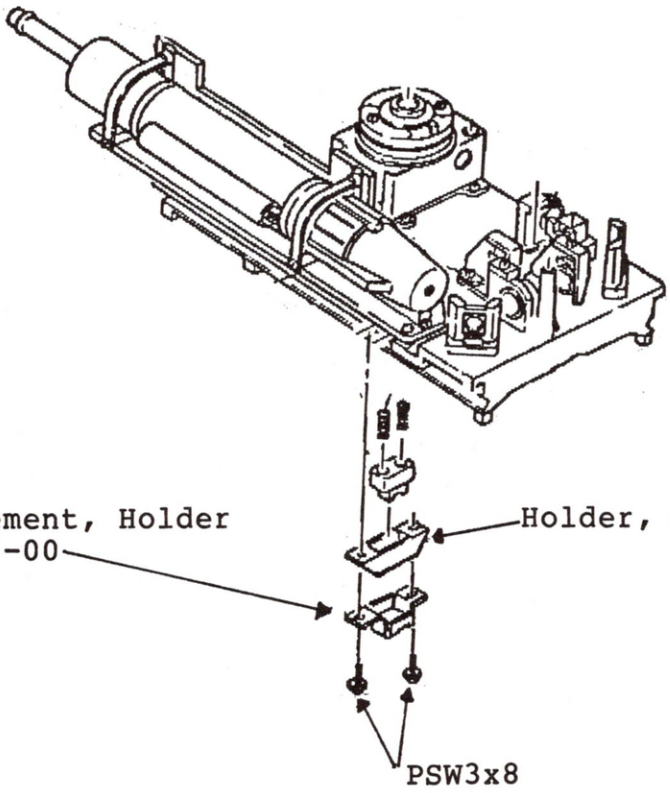
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VIDEO TECHNICAL PUBLICATIONS/VIDEO TRAINING
47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: May, 1982 **No.** 168

Model: LDP-1000

Subject:
ADDITION OF A HOLDER REINFORCEMENT

A Holder Reinforcement has been added for use during shipment.



The new part is compatible with all models and serial numbers.

Factory modified models and serial numbers:

LDP-1000.....21181 and higher
LDP-1000(FD).....14021 and higher

VDP

Ref: VTRW-82-1054

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Date: May, 1982 **No.** 169

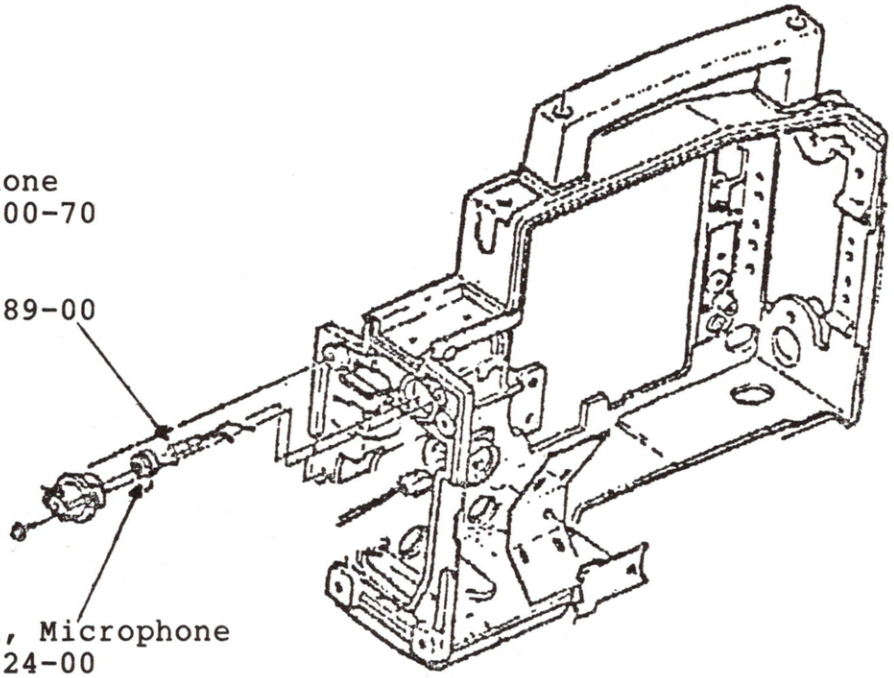
Model: DXC-1640, DXC-1800

Subject:

CHANGE OF THE MICROPHONE AND MICROPHONE CUSHION

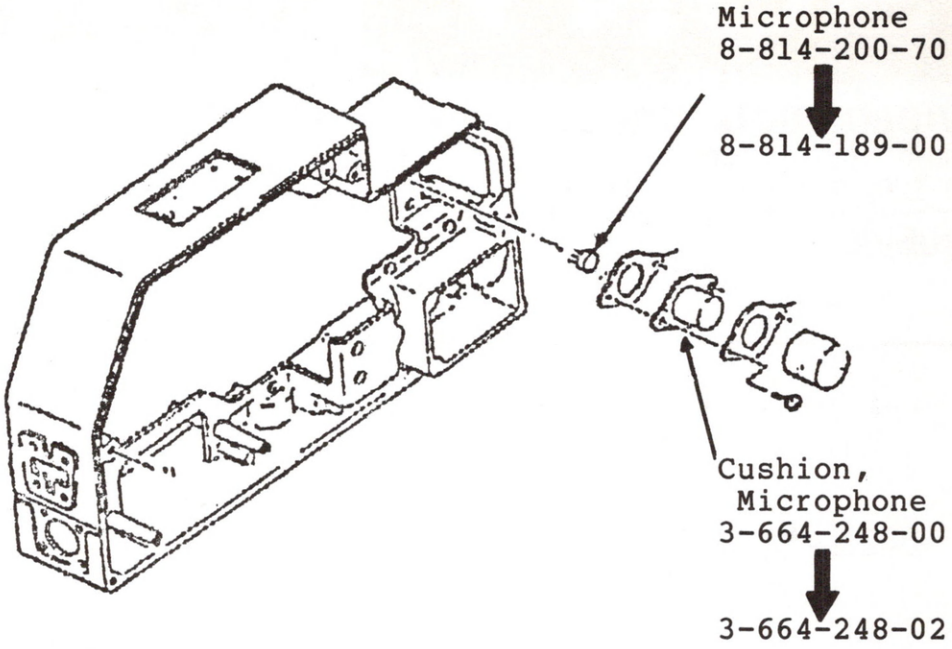
The Microphone and Microphone Cushion have been changed.

DXC-1640 Series



Ref:
VTRW-82-1055

DXC-1800 Series



Factory modified serial numbers:

DXC-1640.....16101 and higher
DXC-1640L.....50151 and higher
DXC-1640X.....60201 and higher
DXC-1800.....17341 and higher

The following table indicates the interchangeability of the old and new parts.

Part		Part Number	Serial Numbers	
			Affected S/N	Factory Modified S/N
Cushion, Microphone	old	3-664-248-00	YES	YES (1)
	new	3-664-248-02	YES (2)	YES
	old	3-650-724-00	YES	YES (1)
	new	3-650-724-02	YES (2)	YES
Microphone	old	8-814-200-70	YES	YES (3)
	new	8-814-189-00	YES (4)	YES

NOTES: (1) Must be used together with 8-814-200-70.
(2) Must be used together with 8-814-189-00.
(3) Must be used together with the appropriate old cushion.
(4) Must be used together with the appropriate new cushion.

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Date: May, 1982 **No.** 170

Model: SLO-383

Subject:

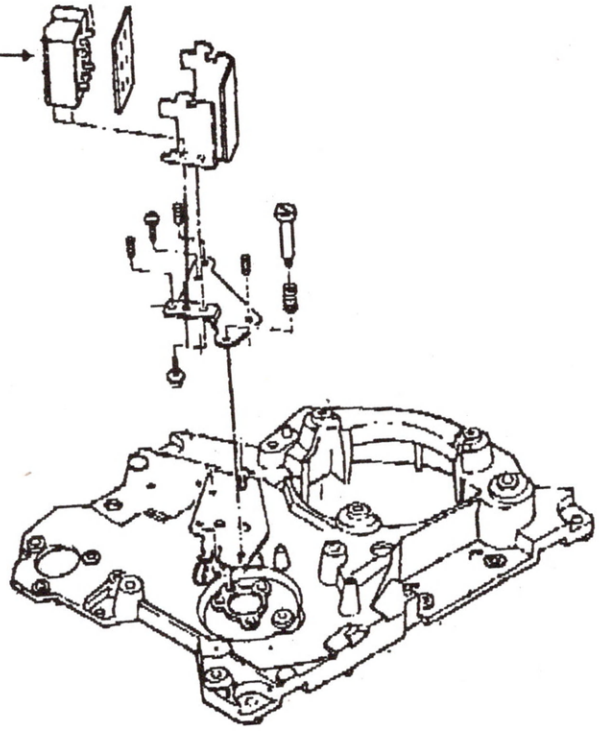
CHANGE OF THE ACE HEAD

The ACE Head has been changed.

ACE Head
8-825-727-10

↓

8-825-997-80



The new part is compatible with all serial numbers.

Factory modified serial numbers:

12751 and higher

Ref: VTRW-82-1057

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Date: June, 1982 **No.** 171

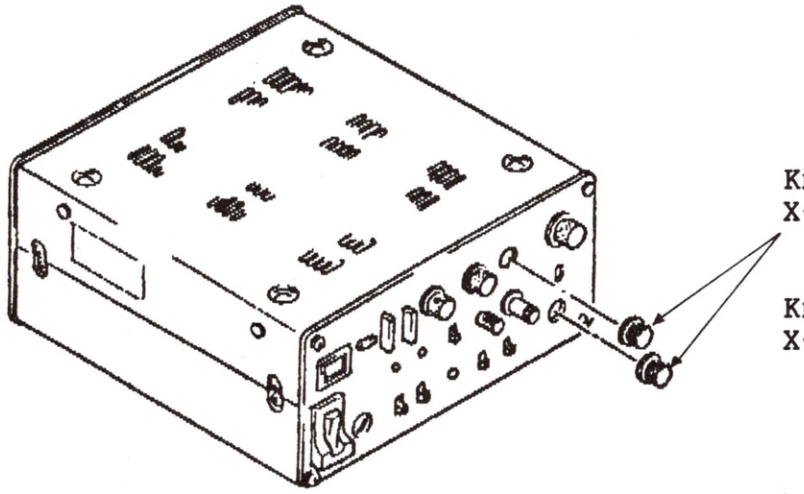
Model: CCU-1800

CAMERA

Subject:

CHANGE OF THE KNOB ASS'Y

The Knob Ass'y has been changed.



The new part is compatible with all models and serial numbers.

Factory modified serial numbers:

11701 and higher

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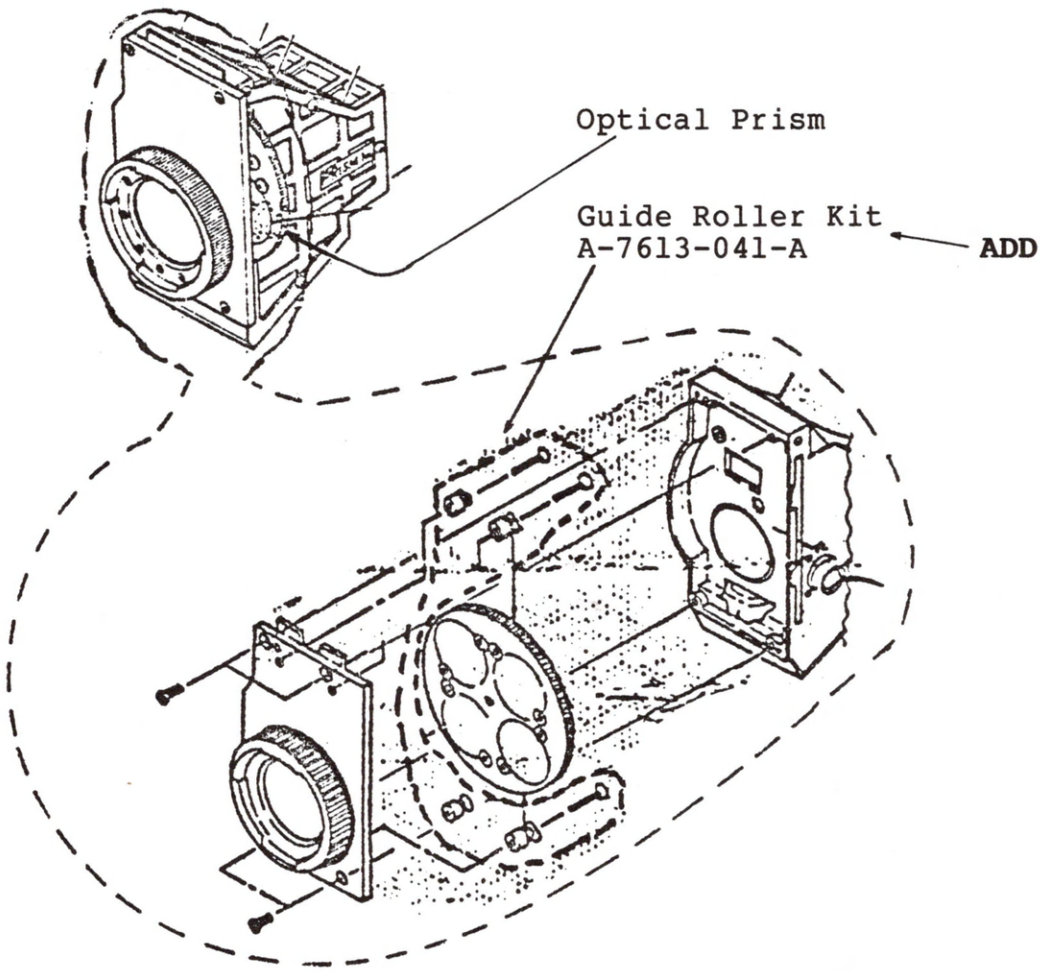
VIDEO PRODUCTS COMPANY
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Date: June, 1982 **No.** 172

Model: DXC-6000

Subject: ADDITION OF A PART NUMBER

Add the following Part and Part Number to your Service Manual.



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Date: June, 1982 **No.** 173

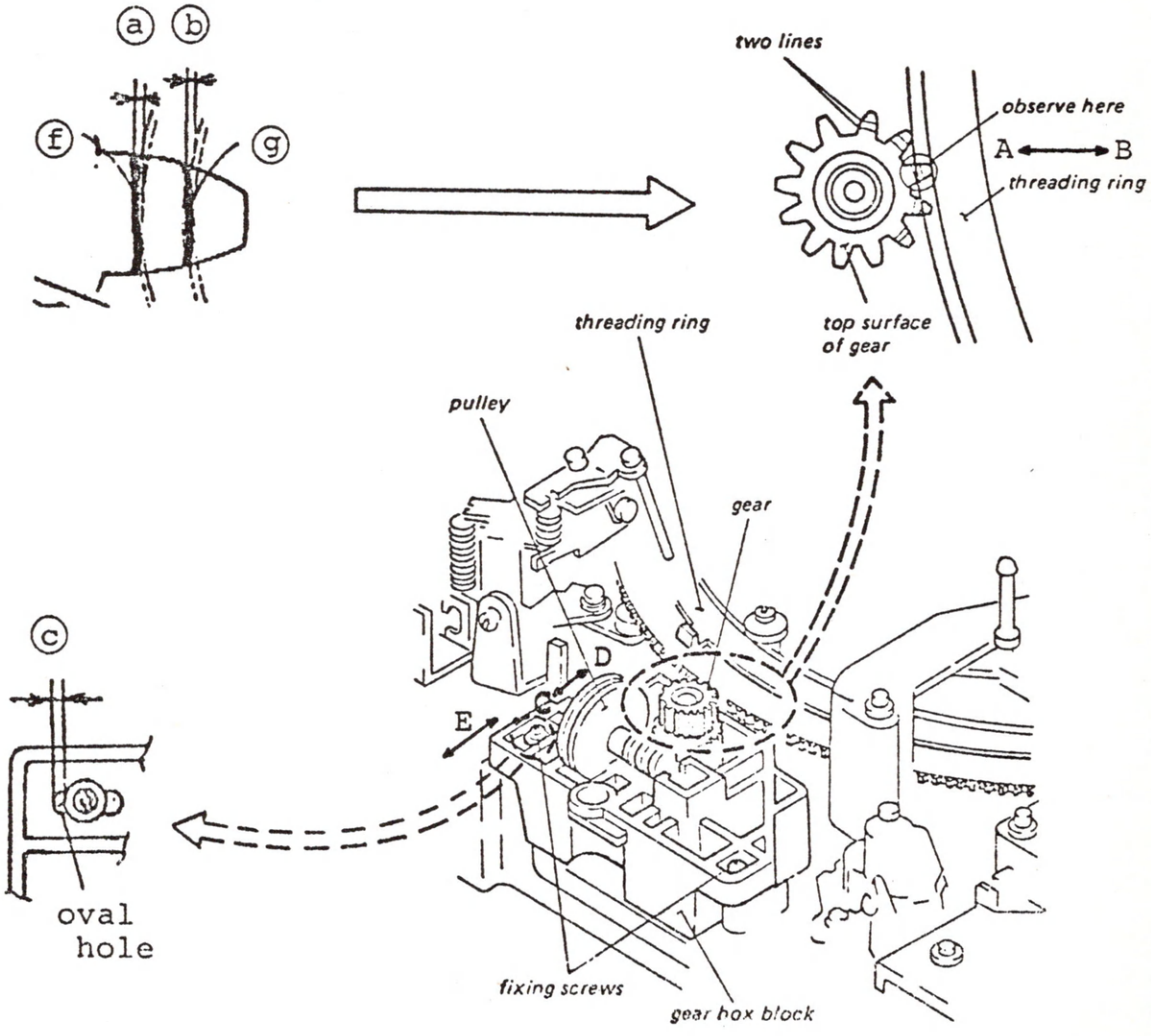
Model: Umatic Type-5

Subject:

CHANGE OF THE GEAR BOX POSITION ADJUSTMENT

Gear Box Position Adjustment

MODE: After completion of EJECT, turn the pulley 1/2 to 1 revolution in the direction of Arrow C in order to push out the Threading Ring.



CHECK PROCEDURE:

(1) To make them easier to see during the Adjustment, mark the two lines on the top surface of the gear with a black felt tip pen.

(2) Turn the pulley so that one of the lines is roughly parallel to the outer circumference of the Threading Ring.

(3) Check to be certain that the relationship between the outer circumference of the Threading Ring and the Gear is within the Specifications (Below).

ADJUSTMENT PROCEDURE:

(1) With the unit's EJECT completed and the pulley turned 1/2 to 1 revolution (as stated above under MODE), turn the pulley back and forth, as indicated by Arrows C and D, so that the Threading Ring and the Gear engage smoothly.

(2) Adjust the position of the Gear Box by moving it in the direction indicated by Arrow E until it is within the Specifications.

SPECIFICATIONS:

(a) When the Threading Ring is moved in the direction of Arrow A, its outer circumference should be on or touching Line "f".

(b) When the Threading Ring is moved in the direction of Arrow B, its outer circumference should be on or touching Line "g".

(c) "c" should be 0.1 to 1.5 mm.

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Date: June, 1982 **No.** 174

Model: (See Below)

Subject:

CHANGE OF THE MECH BELT

The Mech Belt has been changed.

Mech Belt

(old)		(new)
3-653-450-00	⟶	3-659-047-00

Factory modified models and serial numbers:

SLO-323.....23701 and higher
SLO-323MD...11001 and higher
SLO-325.....10036 and higher
SLO-340.....21051 and higher
SLP-300.....27301 and higher
SLP-303.....18251 and higher

The new part is compatible with all models and serial numbers.

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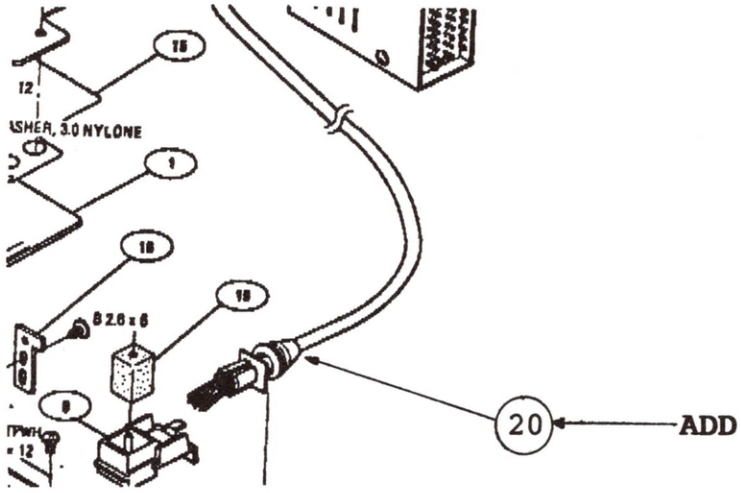
Date: June, 1982 **No.** 175

Model: RM-500

Subject:
ADDITION OF PART NUMBER AND REFERENCE NUMBER

Make the following additions to your Service Manual (pages 3-3 and 3-4, and page 3-8).

Pages 3-3/4 EXPLODED VIEW



No.	Part No.	Description
20	2-284-735-00	Bushing, Cord

Page 3-8 ELECTRICAL PARTS LIST

Frame

CN1	1-556-040-00	Cable, 33p
	1-560-457-00	Plug, 33p

PERIPHERAL

Ref: VTRW-82-1064

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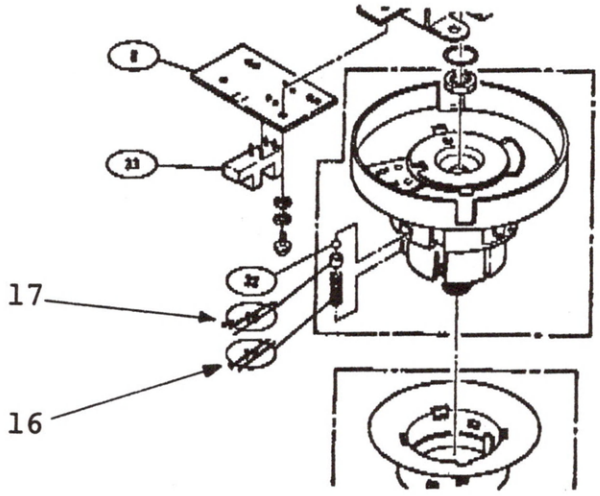
Date: June, 1982 **No.** 176

Model: RM-580

Subject:
SERVICE MANUAL CORRECTION

Make the following corrections in your Service Manual.

Page 3-3 EXPLODED VIEW



PARTS LIST

No.	Part No.	Description
13	1-280-686-00	Retainer, Switch
	↓	
	2-280-686-00	

PERIPHERAL

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VIDEO PRODUCTS COMPANY
VIDEO TECHNICAL PUBLICATIONS/VIDEO TRAINING
47-47 Van Dam Street, L.I.C., N.Y. 11101

Date: June, 1982 **No.** 177

Model: RM-V5

Subject:
SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual (page 3-4).

Page 3-4 EXPLODED VIEW

No.	Part No.	Description
13	2-296-607-00	Lid, Bottom Plate
	2-296-607-11	

PERIPHERAL

Ref: VTRW-82-1066

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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1982 No. 178

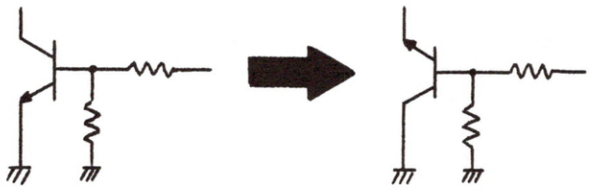
Model: VO-5850

Subject:
NO COLOR WITH TBC

When using a TBC which is NOT a Sony, if the SC level from the TBC is 2.5 Vp-p (at 75 ohms) and there is no color, then perform the following modification.

DM-22/DM-22A Board

Q38 2SC1636



Reverse the mounting of the collector and the emitter of Q38.

Factory modified serial numbers:

14741 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1982 No. 179

Model: VO-5800, VO-5850

Subject:
IC7 CONNECTION ON THE SV-31 BOARD

If any of the following conditions exist:

1. The CAPSTAN and DRUM MOTOR run free or stop.
2. When changing to FF/REW, the CAPSTAN sometimes stops.
3. The SERVO sometimes does not work.

then perform the following procedure.

SV-31 Board

Check IC7 (CX-194A). If the IC is loose, insert it firmly in the socket.

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Date: Aug., 1983 **No.** 180R

Model: DXC-1640, DXC-1800

CAMERA

Subject: CHATTERING WITH THE VCL-1106YB OR VCL-1110YA

VCL-1106YB

When shooting an object with the AUTO IRIS MODE and there is a sudden change in the level of light, chattering (the picture repeatedly goes light and dark) may occur. If this occurs, perform the following modification.

DXC-1640

Remove C62 (0.047 µF) on the DF-9 Board.

DXC-1800

Remove C155 (0.047 µF) on the CR-11 Board.

VCL-1110YA

When shooting an object in the AUTO IRIS MODE with the CCU-1800, and the IRIS SET is in the mid-position, if the AUTO/MANUAL switch is changed abruptly from AUTO to MANUAL, chattering may occur. If this occurs, perform the above modification.

Ref: VS-82-1059, VS-83-4016

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Date: July, 1982 **No.** 181

Model: VO-5850

Subject:
INTERMITENT AUDIO IN TV MODE

If there is intermitent audio when the INPUT SELECT SW is in the TV mode, perform the following modification.

AU-21 Board

	(old)		(new)
Q217	2SC1815	⟶	2SC1636 (p.n. 8-761-622-00)
R207	1k ohms	⟶	10K ohms (p.n. 1-246-497-00)

Factory modified serial numbers:

10891 and higher

Ref: VS-82-1060

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Date: July, 1982 No. 182

Model: VO-5850

Subject:
MOTOR DRIVE CIRCUIT

If the THREADING MOTOR or the CASSETTE COMPARTMENT MOTOR does not operate, perform the following modification.

CASSETTE COMPARTMENT MOTOR

SY-68 Board

	(old)		(new)
R207, R208	2200 ohms	⟶	1K ohms (p.n. 1-246-473-00)

Factory modified serial numbers:

10141 and higher

THREADING MOTOR

SY-68 Board

	(old)		(new)
R209, R210	2200 ohms	⟶	1K ohms (p.n. 1-246-473-00)

Factory modified serial numbers:

10141 and higher

MR-6 Board

	(old)		(new)
C7,C8	6.8 µF/16V	⟶	10 µF/16V (1-123-356-00)

Factory modified serial numbers:

10441 and higher

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Date: July, 1982 **No.** 183

Model: VO-5850

Subject:
COUNTER AUTO RESET DURING OPERATION

If COUNTER AUTO RESET occurs when operating in a low temperature, perform the following modification.

SY-68 Board

Change the specification of the REG 5 V.

5.00±0.05 Vdc ⟶ 5.20±0.05 Vdc

Procedure:
1. With a cassette inserted and in the FR STOP mode, the counter indication should be at 00:00.
2. Adjust the voltage at TP2 with RV1 to the new specification (5.20 V).
3. If the voltage can not be adjusted to 5.20 V, change R2.

R2 750 ohms ⟶ 430 ohms (1-246-464-00)

Factory modified serial numbers:

11591 and higher

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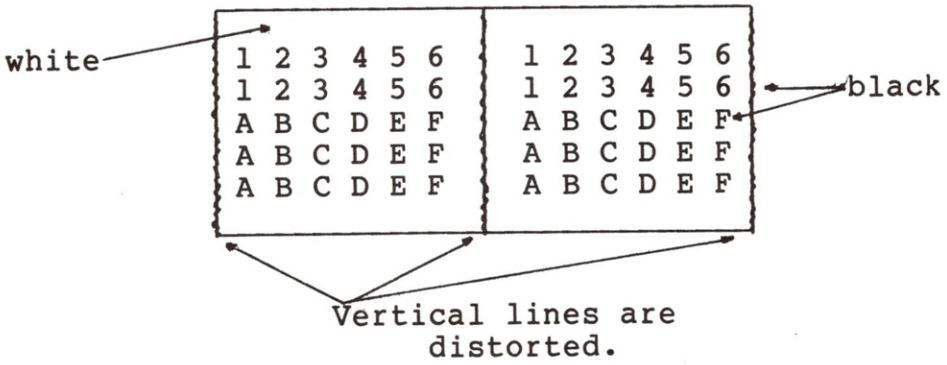
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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1982 **No.** 184

Model: VO-5850

Subject: PICTURE DISTORTION

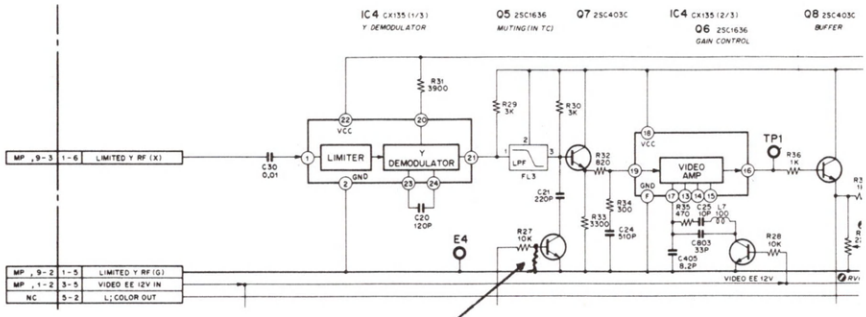
When using a VO-5850 to play back a tape on which a chart similar to the one below has been recordered with a BVU-110 or VO-4800, if the picture is distorted as indicated below, perform the following modification.



Modification

DM-22 Board

ADD: R37 10K ohms, carbon, 1/8W
1-246-795-00



Factory modified serial numbers:

13891 and higher

Ref: VS-82-1034, VTRW-82-1088

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Date: Nov., 1982 | No. 185R

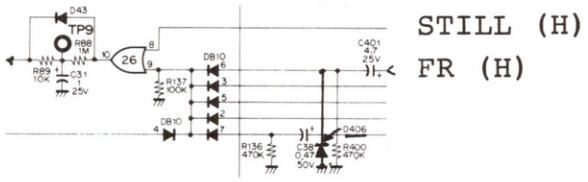
Model: VO-5600, VO-5630,
VP-5000, VP-5030

Subject: IMPROPER TAPE SLACK OPERATION

If (1) the FF or REW button is pushed while still in the process of threading from the FR-STOP mode, and (2) after the threading ring returns to the FR-STOP position the tape slack operation occurs, perform the following modification.

SY-75/75A Board

ADD: diode (1S1555)



diode 1S1555 (on foil side)

Factory modified models and serial numbers:

VO-5600.....12051 and higher
VO-5630.....10841 and higher
VP-5000.....12351 and higher
VP-5030.....11841 and higher

Ref: VS-82-1045

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 186R

Model: VO-5600, VO-5630

Subject: UNSTABLE LONG PAUSE

If there is no tape slack when going into LONG PAUSE from DUB-STILL or REC-STILL, perform the following modification.

SY-75 Board

Delete: D31 (PC Board location: B-3)
D38 (PC Board location: B-4)

Factory modified models and serial numbers:

VO-5600.....12051 and higher
VO-5630.....10841 and higher

Ref: VS-82-1046

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Date: Nov., 1982 **No.** 187R

Model: VO-5600, VP-5000

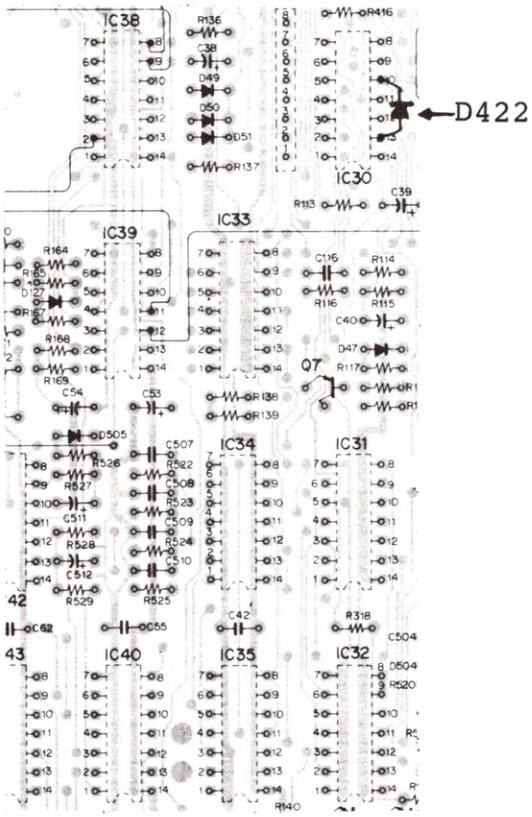
Subject:

INCORRECT LONG PAUSE OPERATION

If the unit goes into the REW mode when it is put into the LONG PAUSE mode from STILL, perform the following modification.

SY-75 Board

ADD: D422 (1S1555)



Factory modified models and serial numbers:

VO-5600.....12051 and higher
VO-5630.....10841 and higher
VP-5000.....12351 and higher
VP-5030.....11841 and higher

Ref: VS-82-1047

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Date: July, 1982 **No.** 188

Model: VO-5600

Subject:
ALIGNMENT TAPE CORRECTION

Make the following correction in your service manual, pages 9-1, 10-1 and 11-1.

Incorrect

[Equipment Required]
- Alignment Tape; RR5-2SA-PAL (Part No.: 8-960-015-62) or RR5-1SC-PAL (Part No.: 8-960-035-01)

RR5-2SA-PAL

Real Time Counter (min.)	Tape Counter	Video Track	Audio Track
00:00 – 04:00	000 – 100	Monoscope	3 KHz, 0 dB
04:00 – 09:00	100 – 208	Color-bar	———
09:00 – 14:00	208 – 300	R-F sweep	———
14:00 – 16:00	300 – 335	Mod. 20T pulse	1 KHz, 0 dB
16:00 – 18:00	335 – 367	M.S. w/burst	10 KHz, –10 dB
18:00 – 20:00	367 – 398	Pseudo C.B. for DOC adj.	———

Correct

[Equipment Required]
- Alignment Tape; RR5-1S (Part No. 8-960-015-01) or RR5-2SA (Part No. 8-960-015-02).

RR5-2SA

Real Time Counter (min.)	Tape Counter	Video Track	Audio Track
00:00 – 04:00	000 – 100	Monoscope	3 KHz, 0 dB
04:00 – 09:00	100 – 208	Color-bar	———
09:00 – 14:00	208 – 300	R-F sweep	———
14:00 – 16:00	300 – 335	Mod. 20T pulse	1 KHz, 0 dB
16:00 – 18:00	335 – 367	M.S. w/burst	10 KHz, –10 dB
18:00 – 20:00	367 – 398	Pseudo C.B. for DOC adj.	———

Ref: VS-82-1048

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 | No. 189R

Model: VO-5600, VO-5630, VP-5000, VP-5030

Subject: INOPERATIVE THREADING

If THREADING does not operate even though a cassette is inserted in the unit, perform the following modification.

SY-75/75A Board

Change: R8, R14, R15, and R16

(old)		(new)
2.2K ohms	⟶	1K ohms

MR-8/8A Board

Change: C1 and C3

(old)		(new)
4.7μ/25V	⟶	6.8μ/20V, tantalum

C5 and C7

(old)		(new)
4.7μ/25V	⟶	10μ/16-25V, electrolytic

Factory modified models and serial numbers:

VO-5600.....12051 and higher
VO-5630.....10841 and higher
VP-5000.....12351 and higher
VP-5030.....11841 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1982 **No.** 190

Model: VO-5850

Subject:
INCORRECT PREROLL

When in PREROLL if the unit stops before the PREROLL point, perform the following modification.

SY-68/68A Board

	(old)		(new)
C60	470 pF	⟶	1000 pF (1-161-039-00)

Factory modified serial numbers:

11591 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1982 **No.** 191

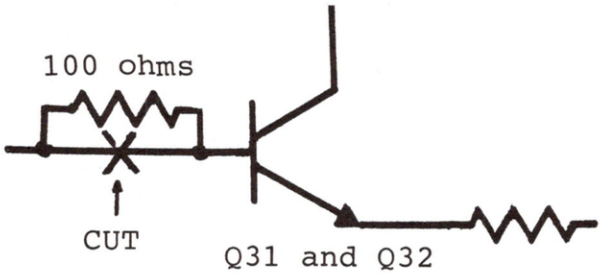
Model: VO-5850

Subject:
BUZZ IN THE AUDIO WHEN IN SEARCH

If a buzz occurs in the audio when in the SEARCH mode, perform the following modification.

DC-10 Board

Add a 100 ohms resistor (p.n. 1-246-449-00) to the base of Q31 and Q32.



Factory modified serial numbers:

11591 and higher

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VTR

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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1982 **No.** 192

Model: VO-5850

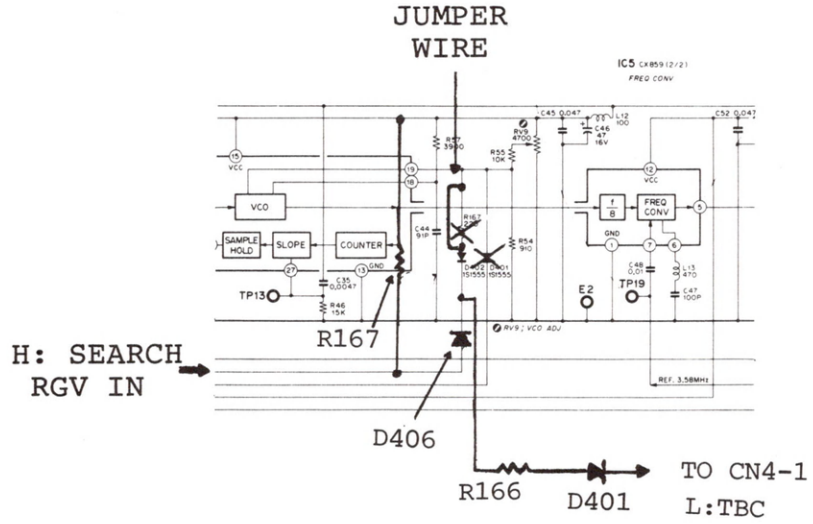
Subject:
INCORRECT COLOR IN SEARCH REV X5

When connected with a TBC, if the color is incorrect in SEARCH REV X5, the perform the following modification.

DM-22A Board

Delete: R167 220K ohms (add jumper wire)
D401 1S1555

Add: R166 27K ohms (1-246-507-00)
R167 15K ohms (1-246-501-00)
D401 1SS119 (8-719-911-19)
D406 1SS119 (8-719-911-19)



Factory modified serial numbers:

13891 and higher

Ref: VS-82-1066

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Date: July, 1982 **No.** 193

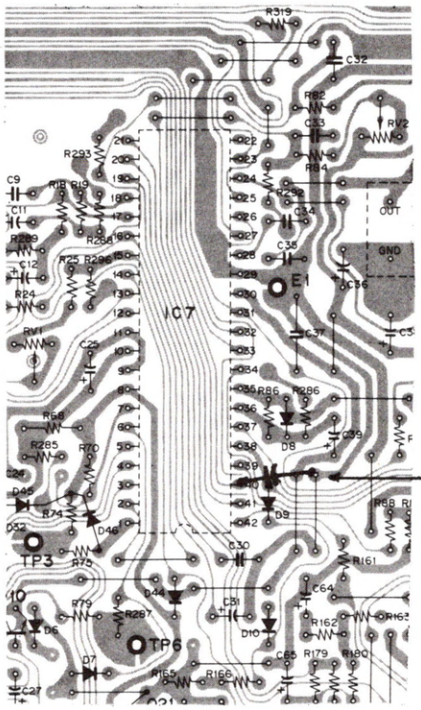
Model: VO-5850

Subject:
PICTURE BREAK UP WITH AUDIO INSERT EDIT

If the picture breaks up when performing Audio Insert Editing, perform the following modification.

SV-31/31A Board

Add a capacitor (0.01 µF, ceramic; p.n.1-161-185-00) between Pin 40 of IC7 (CX-194) and GND.



Factory modified serial numbers:

11591 and higher

Ref: VS-82-1067

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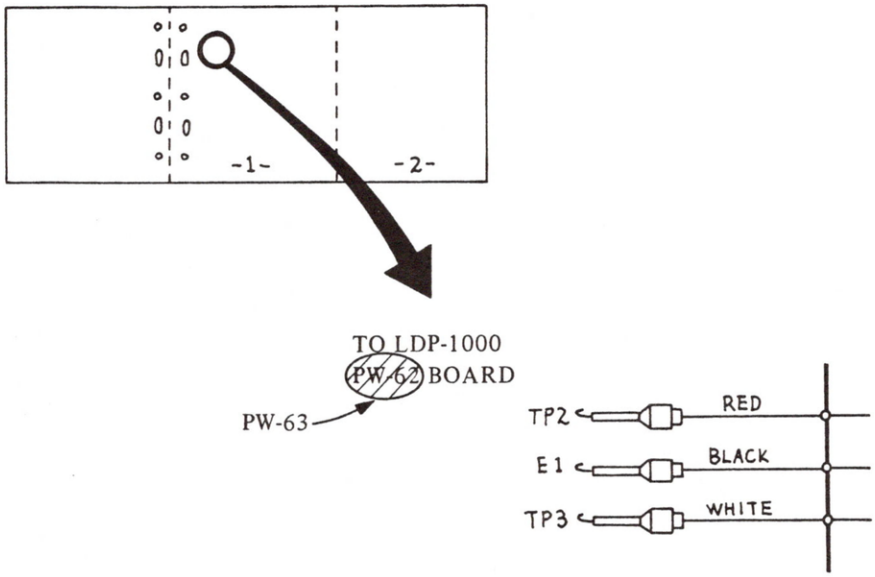
SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: August, 1982 **No.** 194

Model: LDP-1000

Subject: SERVICE MANUAL SUPPLEMENT CORRECTION

Make the following correction in Supplement 1 of your Service Manual.



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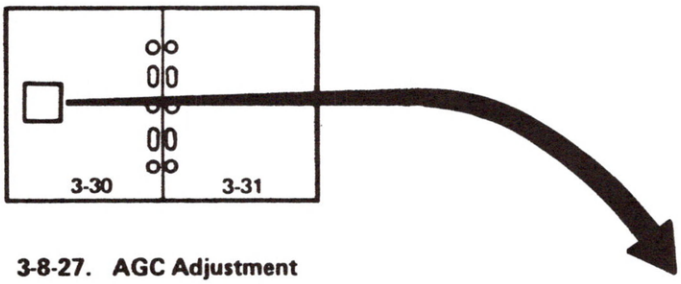
Date: August, 1982 **No.** 195

Model: DXC-1850

Subject: SERVICE MANUAL CORRECTION

CAMERA

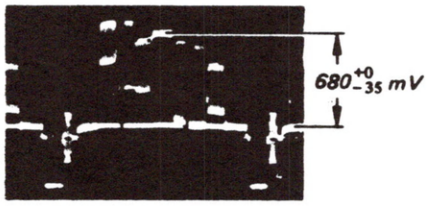
Make the following correction in your Service Manual.



3-8-27. AGC Adjustment

ADD

Lens	:	Iris F5.6
Switch	:	VIDEO LEVEL "AUTO"
Test point	:	TP2 (GND: E1)/EN-11 board
Scope trig	:	HD (C54/SG-35A board)
Adj point	:	⊘ RV23/PR-30 board ⊘ RV24/PR-30 board
Adjust	:	1. Set LENS switch (S4/CT-21 board) to "AUTO". Adjust RV23/PR-30 board so that the level at TP2/EN-11 board is 680^{+0}_{-35} mV.



Ref: VTRW-82-1029

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TECHNICAL BULLETIN

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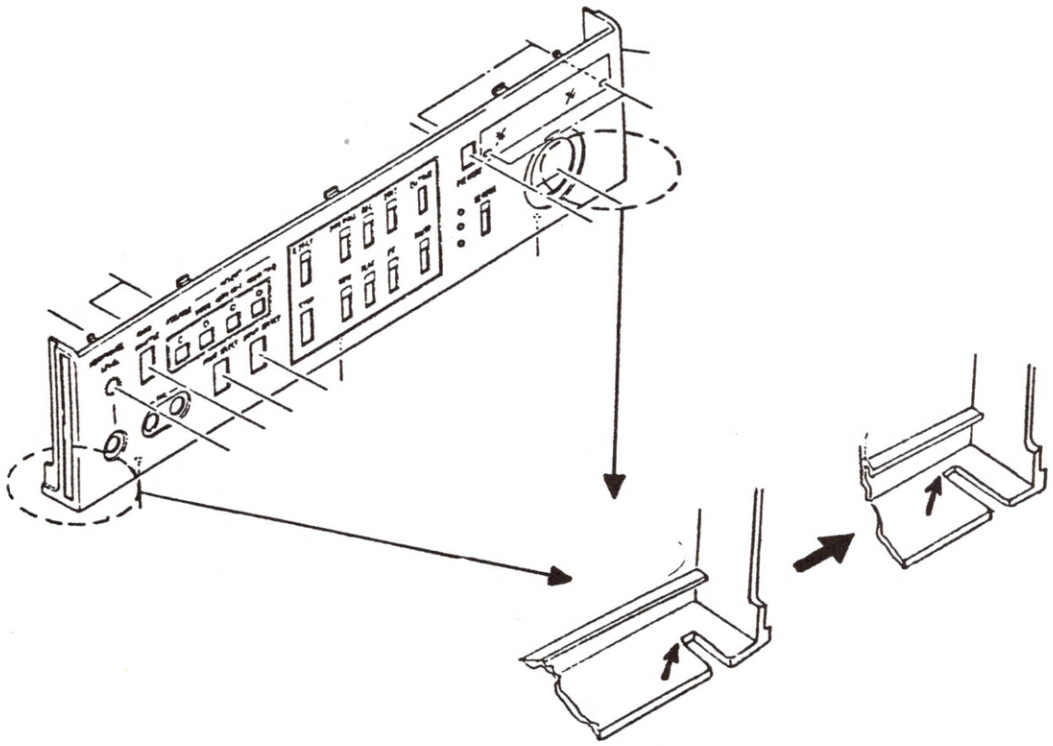
SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: August, 1982 **No.** 196

Model: U-matic 5000 Series

Subject:
CHANGE OF THE KEY BOARD PANEL ASS'Y

The Key Board Panel Ass'y has been changed.



	(old)	(new)
VO-5600.....	X-3672-602-2	X-3672-602-3
VO-5800.....	X-3667-801-4	X-3667-801-5
VO-5850.....	X-3668-753-4	X-3668-753-5
VP-5000.....	X-3672-701-2	X-3672-701-3

Factory modified models and serial numbers:

VO-5600.....10001 and higher
VO-5800.....10141 and higher
VO-5850.....10601 and higher
VP-5000.....10001 and higher

The new part is compatible with all serial numbers of the appropriate models.

Ref: VTRW-82-1075

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VIDEO PRODUCTS TECHNICAL BULLETIN

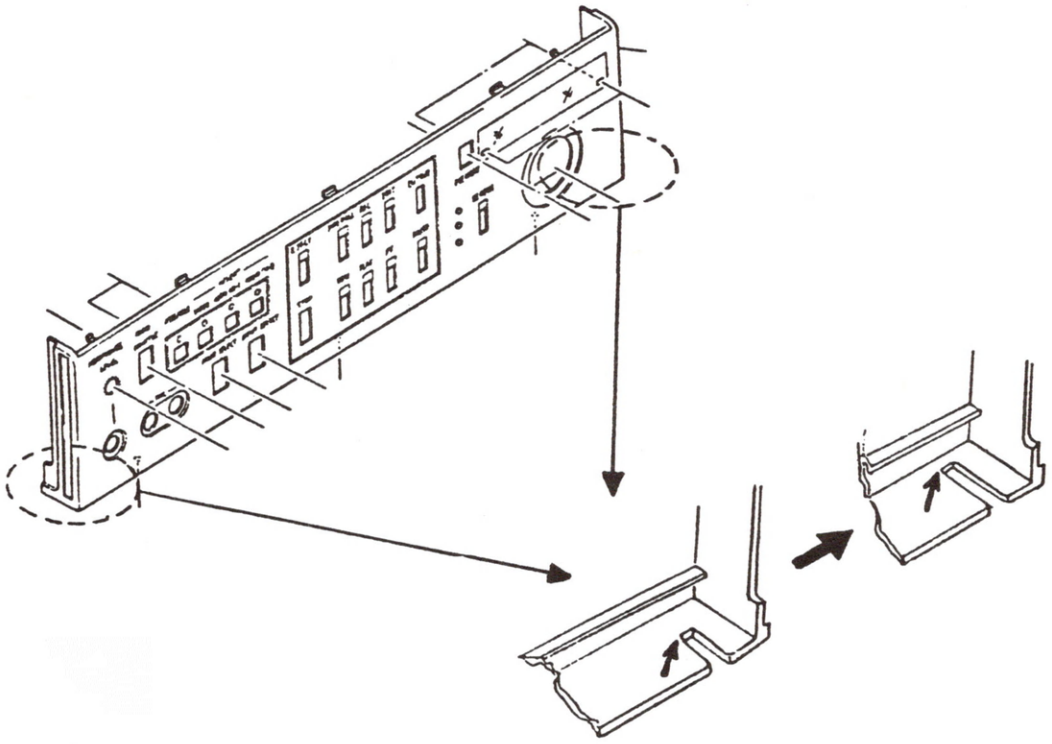
SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 196R

Model: U-matic 5000 Series

Subject: CHANGE OF THE KEY BOARD PANEL ASS'Y

The Key Board Panel Ass'y has been changed.



	(old)	(new)
VO-5600.....	X-3672-602-2	X-3672-602-3
VO-5630.....	X-3672-605-0	X-3672-605-2
VO-5800.....	X-3667-801-4	X-3667-801-5
VO-5850.....	X-3668-753-4	X-3668-753-5
VP-5000.....	X-3672-701-2	X-3672-701-3
VP-5030.....	X-3672-702-0	X-3672-702-2

Factory modified models and serial numbers:

VO-5600.....10001 and higher
VO-5630.....10001 and higher
VO-5800.....10141 and higher
VO-5850.....10601 and higher
VP-5000.....10001 and higher
VP-5030.....10001 and higher

The new part is compatible with all serial numbers of the appropriate models.

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Date: August, 1982 **No.** 197

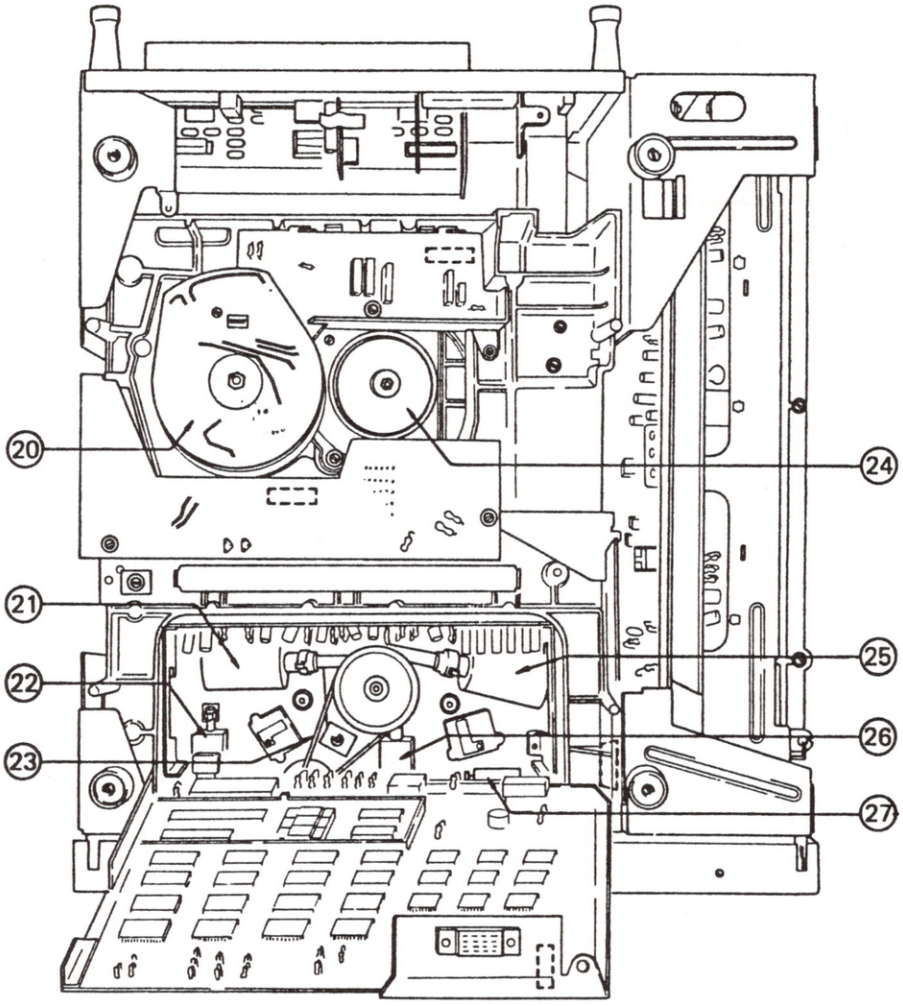
Model: VO-5850

Subject: SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual, Section 2-3-2 Location of the Mechnical Main Parts/Components (page 2-6).

Ref: VTRW-82-1076

< BOTTOM VIEW >



20 Capstan motor
21 Supply idler solenoid
22 Supply brake solenoid
23 Belt for FF/REW idler
24 Drum motor
25 Take-up idler solenoid
26 10 times picture search solenoid
27 Take-up brake solenoid

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 198R

Model: U-matic 5000 Series

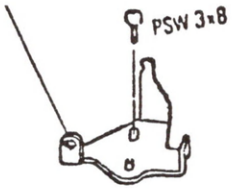
Subject:

CHANGE OF THE FR DETECTION BRACKET

The FR Detection Bracket has been changed.

(old)

Bracket, Detection, FR
3-668-756-00



(new)



Bracket, Detection, FR
3-668-756-02

Factory modified models and serial numbers:

VO-5600.....15651 and higher
VO-5630.....10201 and higher
VO-5800.....11041 and higher
VO-5850.....14741 and higher
VP-5000.....17351 and higher
VP-5030.....10301 and higher

The new part is compatible with all models and serial numbers.

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Date: August, 1982 **No.** 199

Model: CONNECTING CABLE MANUAL

Subject:
MANUAL CORRECTION

Make the following correction in your Connecting Cable Manual (page 28).

(original)

VO-2860A

F FWD 0V IN/OUT	1
PLAY 0V IN/OUT	2
REW 0V IN/OUT	3
CUT OUT KEY 0V IN	4
CUT IN KEY 0V IN	5
REC KEY 0V IN	6
EDIT KEY 0V IN	7
REC/ASS 0V OUT	8
C-IN/INS 0V OUT	9
RM-430:REV 0V IN RM-400:POWER CONT OUT	10
REG 6.5V OUT	11
STOP KEY 0V IN	12
PAUSE KEY 0V IN	13
GND	14
DOUBLED CTL OUT	15
STOP 0V IN/OUT	16
PAUSE 0V IN	17
STANDBY 0V OUT	18
SLOW (1/20) 0V OUT	19
SLOW (1/20) KEY 0V IN	20

(correction)

VO-2860A

REG 6.5V OUT	1
C-IN/INS 0V OUT	2
REC/ASS 0V OUT	3
EDIT KEY 0V IN	4
REC KEY 0V IN	5
CUT IN KEY 0V IN	6
CUT OUT KEY 0V IN	7
STOP KEY 0V IN	8
PAUSE KEY 0V IN	9
REV 0V IN	10
REW 0V IN/OUT	11
F FWD 0V IN/OUT	12
PLAY 0V IN/OUT	13
GND	14
DOUBLED CTL OUT	15
STOP 0V IN/OUT	16
PAUSE 0V IN	17
STANDBY 0V OUT	18
SLOW (1/20) KEY 0V IN	19
SLOW (1/20) 0V OUT	20

ACCSSY

Ref: VTRW-82-1081

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 200R

Model: U-matic 5000 Series

Subject: ATTACHMENT OF THE SYSTEM CONTROL BOARD

The System Control (SY) Mounted Circuit Board attaching hardware has been changed.

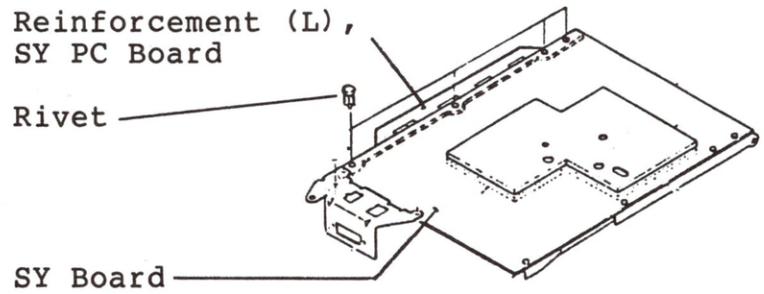
The suffixes of the part numbers for the Mounted Circuit Boards have also been changed as indicated below.

	(old)		(new)
VO Series			
	"-A"	⟶	"-B"
VP Series			
	"-B"	⟶	"-C"

Factory modified models and serial numbers:

VO-5600.....17451 and higher
VO-5630.....10201 and higher
VO-5800.....11541 and higher
VO-5850.....15041 and higher
VP-5000.....17451 and higher
VP-5030.....10301 and higher

The old and new mounted circuit boards are not interchangeable. However, the boards can be made interchangeable by replacing the board's SY PC Board Reinforcement (L) with the VTR's hardware.



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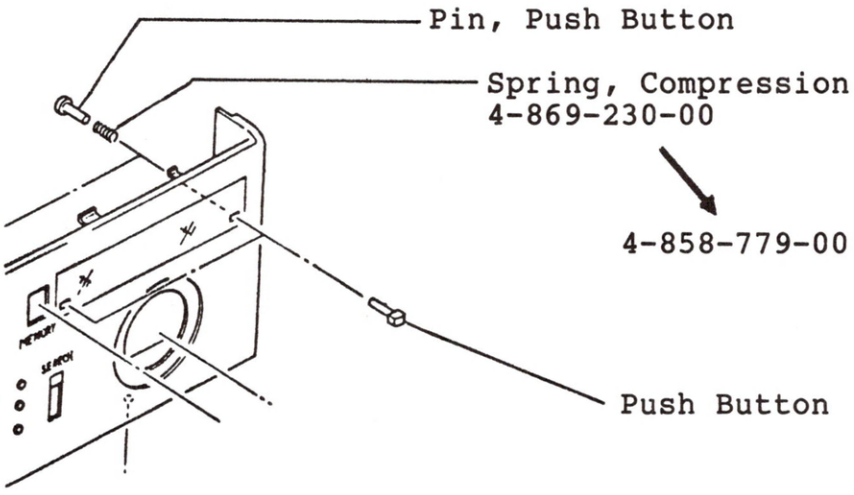
Date: August, 1982 **No.** 201

Model: VO-5800, VO-5850

Subject:

CHANGE OF THE RESET PUSH BUTTON COMPRESSION SPRING

The Compression Spring in the Key Board Ass'y's Reset Push Button has been changed.



Factory modified models and serial numbers:

VO-5800.....10441 and higher
VO-5850.....13691 and higher

The new part is compatible with all models and serial numbers.

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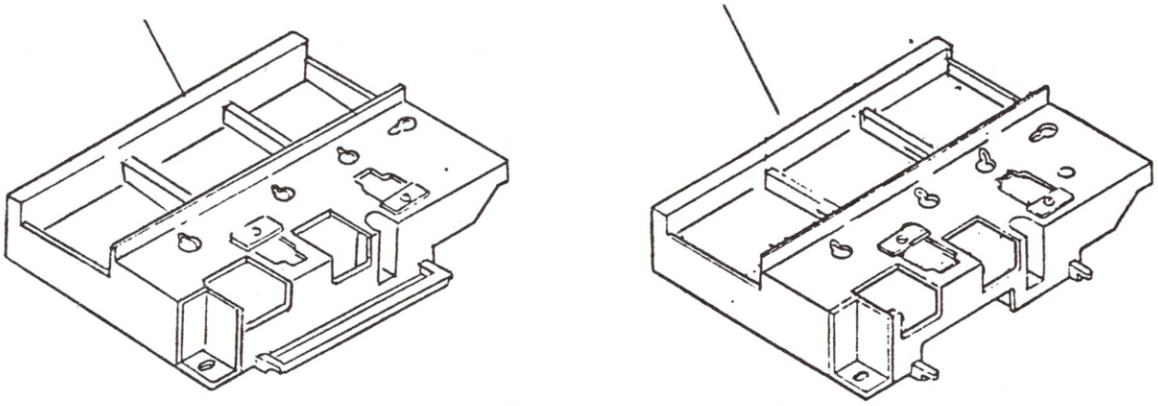
Date: Nov., 1982 **No.** 202R

Model: U-matic 5000 Series

Subject:
CHANGE OF THE METER PANEL

The Meter Panel has been changed.

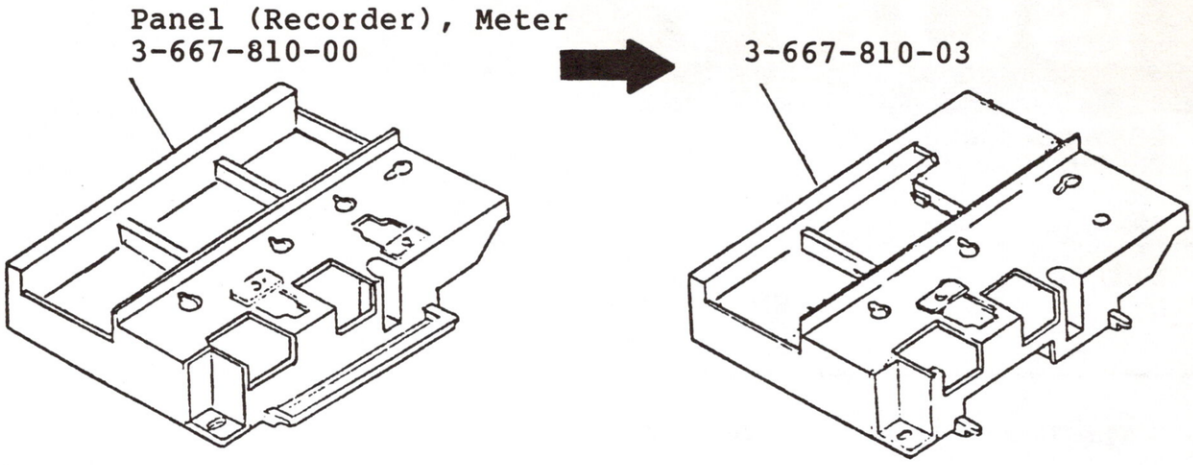
Panel(E), Meter
30668-840-00 → 3-668-840-03



Factory modified serial numbers:

VO-5850.....13891 and higher

The new part is not compatible with earlier serial numbers.



Factory modified models and serial numbers:

VO-5600.....13051 and higher
VO-5630.....10201 and higher
VO-5800.....10441 and higher
VP-5000.....13851 and higher
VP-5030.....10001 and higher

The new part is not compatible with earlier serial numbers.

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Sony Drive, Park Ridge, N.J. 07656

Date: Sept., 1982 | No. 203

Model: VO-5800

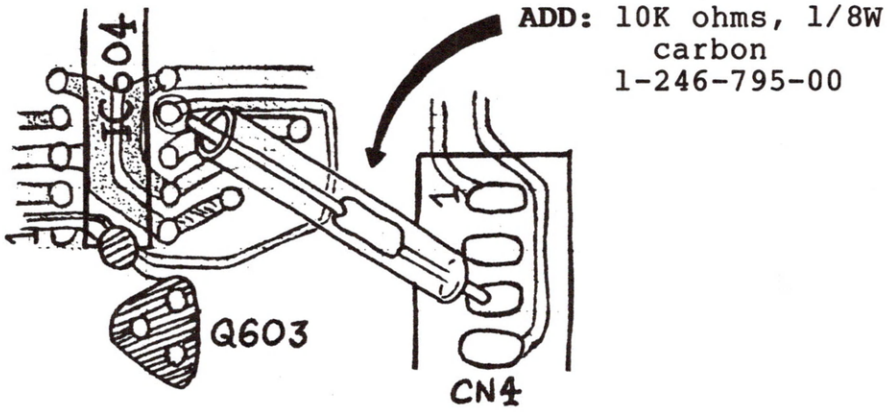
Subject:

NO CTL DUB

When using a VO-5800 as a master and dubbing a tape which has no CTL (such as a tape with RX-353 data), if CTL is recorded on the copy, perform the following modification.

SV-47 Board

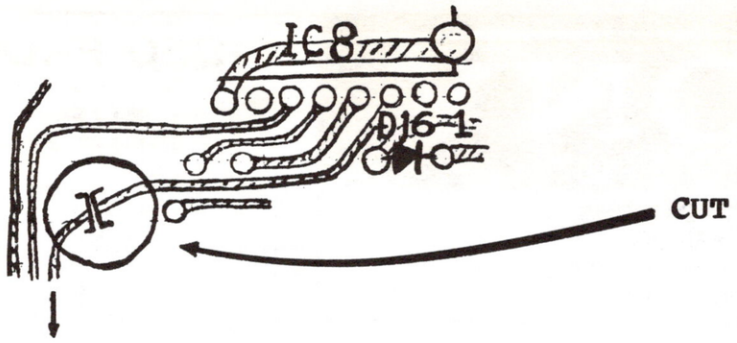
Add a 10K ohms, 1/8W, carbon resistor between Pin 3 of CN4 and Pin 13 of IC604. (Cover the resistor with tubing.)



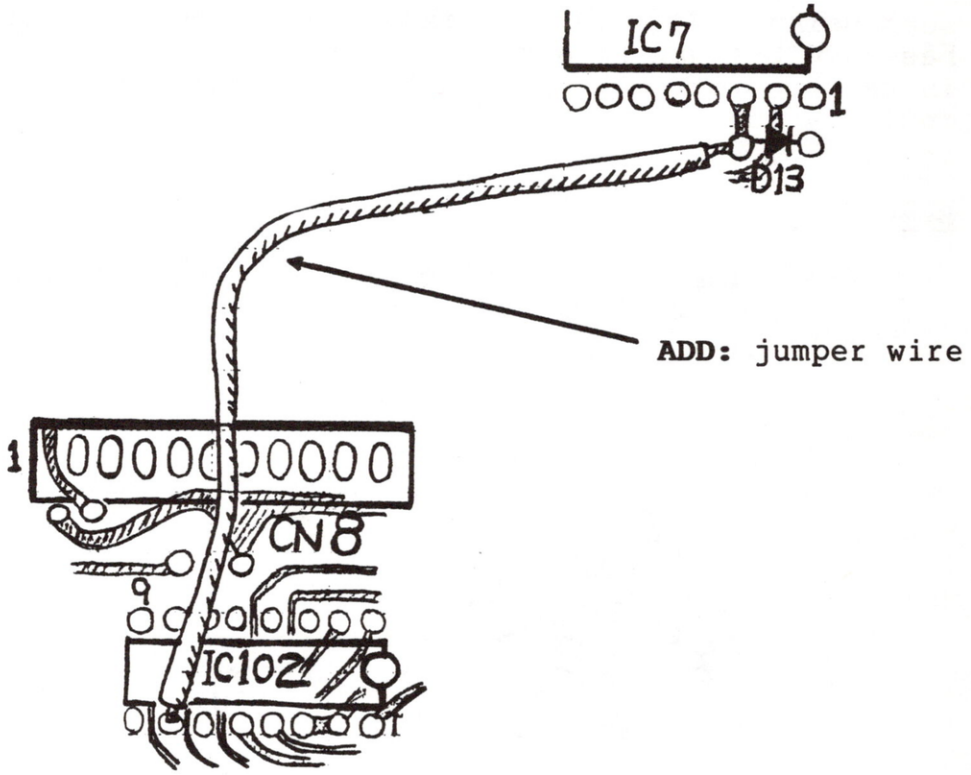
SY-68B Board

1. Cut the pattern between Pin 3 of IC8 and Pin 7 of IC102.

2. Add a jumper wire on the foil side between D13 and Pin 7 of IC102.



to Pin 7 of IC102



Factory modified serial numbers:

11541 and higher

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Date: Nov., 1982 | No. 204R

Model: U-matic 5000 Series

Subject:

INCORRECT SYSTEM CONTROL OPERATION

If the SYSTEM CONTROL operates incorrectly perform the following modification.

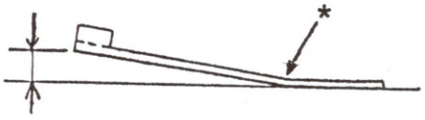
Modification

ADD: Ground Plate
3-669-964-00

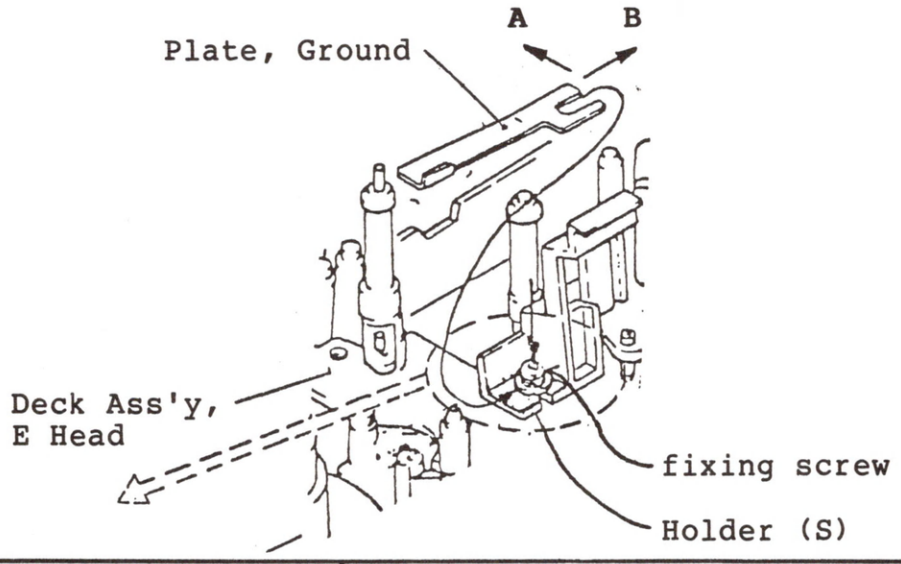
Procedure:

(1) Check to insure that the bent portion of the Ground Plate is within the specifications. Adjust if necessary by bending at the * marked point.

Spec: 2-3 mm



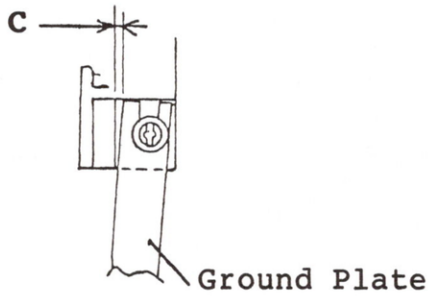
(2) Loosen the fixing screw of the Holder (S) one or two turns.



(3) Insert the Gound Plate under the fixing screw from the direction indicated.

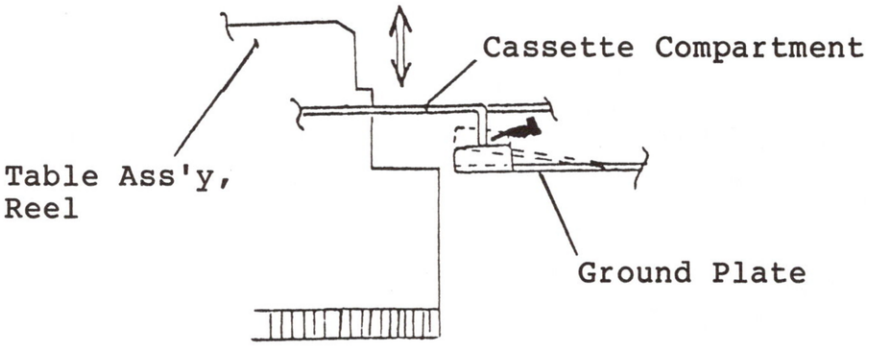
(4) Check to see that the Ground Plate is firmly against the Holder (S) in directions "A" and "B". Tighten the fixing screw.

(5) Check to see that "C" is within the specifications.



Specification: 0.3 mm or less

(6) Check to insure that Cassette Compartment and the Ground Plate make contact (as shown below) when the Cassette Compartment is raised and lowered.



Factory modified models and serial numbers:

VO-5600.....14151 and higher
VO-5630.....10001 and higher
VO-5800.....10441 and higher
VO-5850.....13891 and higher
VP-5000.....13851 and higher
VP-5030.....10001 and higher

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Date: Sept., 1982 **No.** 205

Model: RM-500

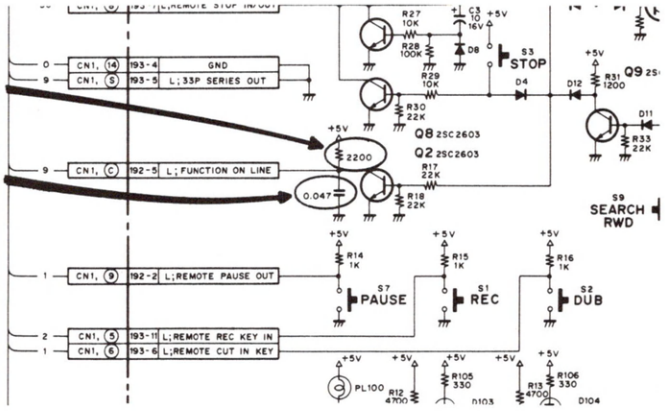
Subject:

CHANGE OF THE KY-19 BOARD

1. If the mode is cancelled during operation, make the following modification on the KY-19 Board.

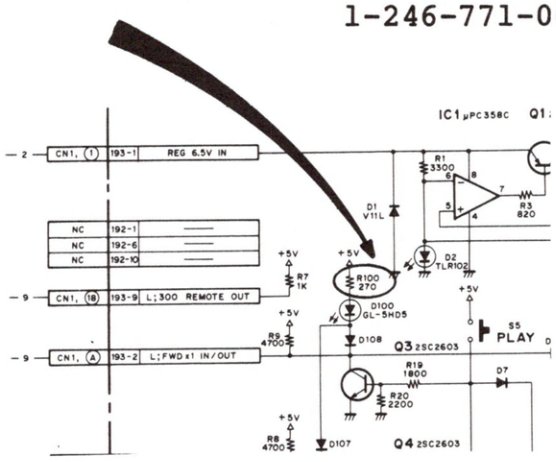
ADD: R34 2200 ohms
1-246-787-00

C4 0.047µf
1-108-595-00



2. IF the LED darkens, make the following modification on the KY-19 Board.

CHANGE: R100 270 ohms ⟶ 220 ohms
1-246-771-00



Factory modified serial numbers:

10201 and higher

Ref: VTRW-82-1089, VS-82-1043

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Date: Sept., 1982 **No.** 206

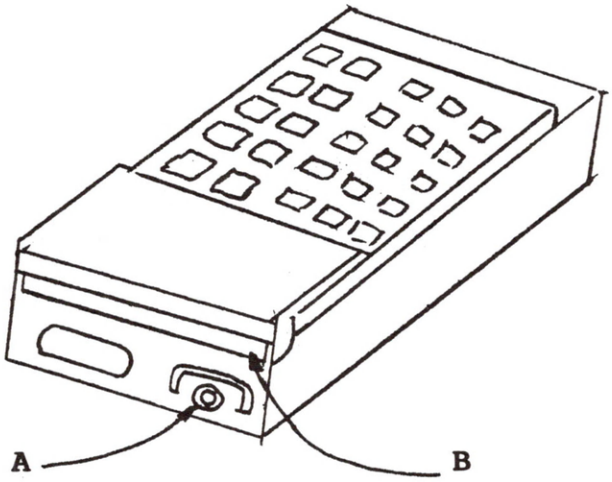
Model: LDP-1000

Subject:

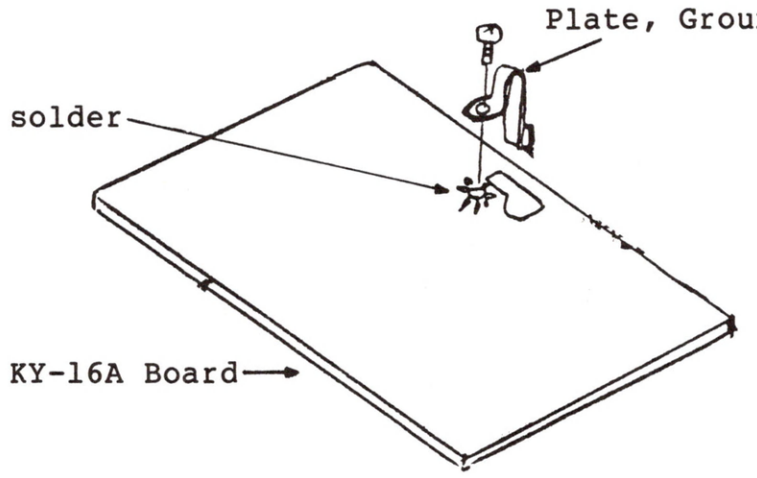
GROUND CHECK OF THE RM-1002 REMOTE CONTROL UNIT

After replacing IC-1 (CX-7929) in inoperative RM-1002's, check the ground contacts, as shown below.

Check the continuity between parts "A" and "B".



If there is no continuity, resolder the GROUND PLATE so that it makes contact with the aluminum plate.



VDP

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Date: Sept., 1982 **No.** 207

Model: DXC-6000

CAMERA

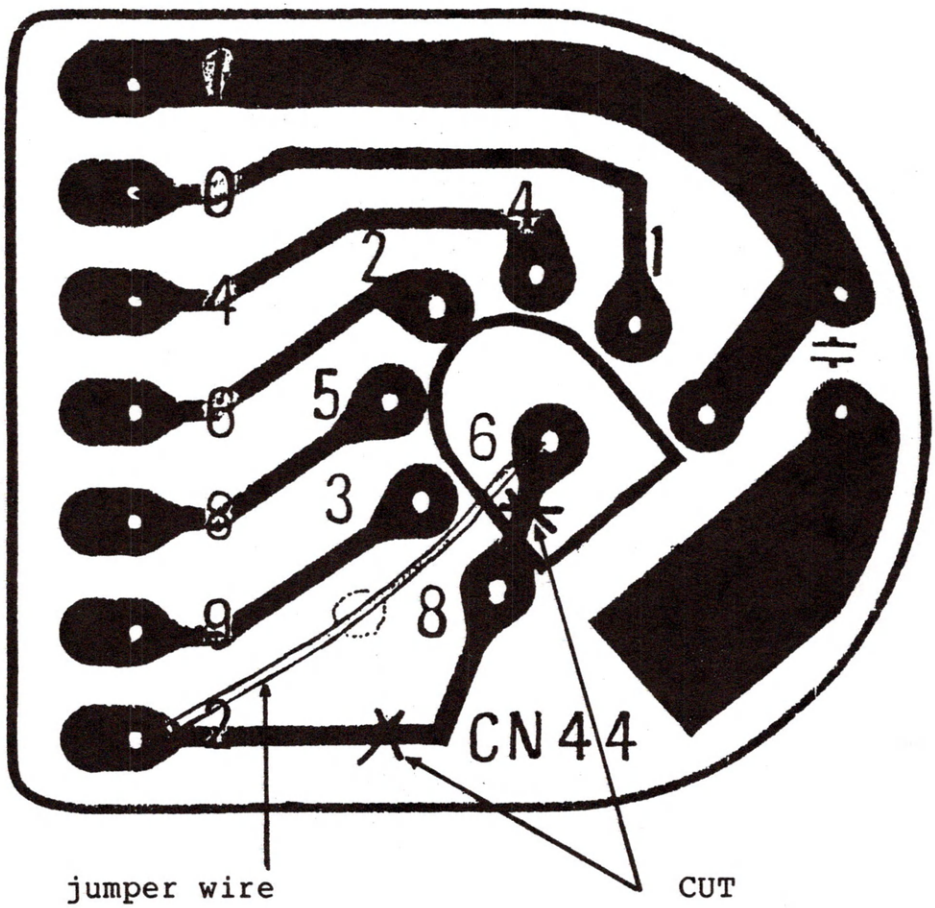
Subject:

RETURN VIDEO PICTURE BREAKS UP

When using the DXC-6000 with the DXF-40, if the Return Video picture breaks up, perform the following modification.

CN-44 Board

1. Cut the pattern at the two points indicated.
2. Add a jumper wire between Pins 2 and 6.
3. Check to see that there is not continuity between Pins 2 and 8, or between Pins 6 and 8.



Affected serial numbers:

DXC-6000

50341-50503,
50505-50663,
50665-50676,
50678-50690,
50692,
50694-50696,
50698-50700,
50704-50705,
50707-50708,
50711-50712,
50714-50718,
50720-50721,
50724-50730,
50732,
50739-50970

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VIDEO PRODUCTS TECHNICAL BULLETIN

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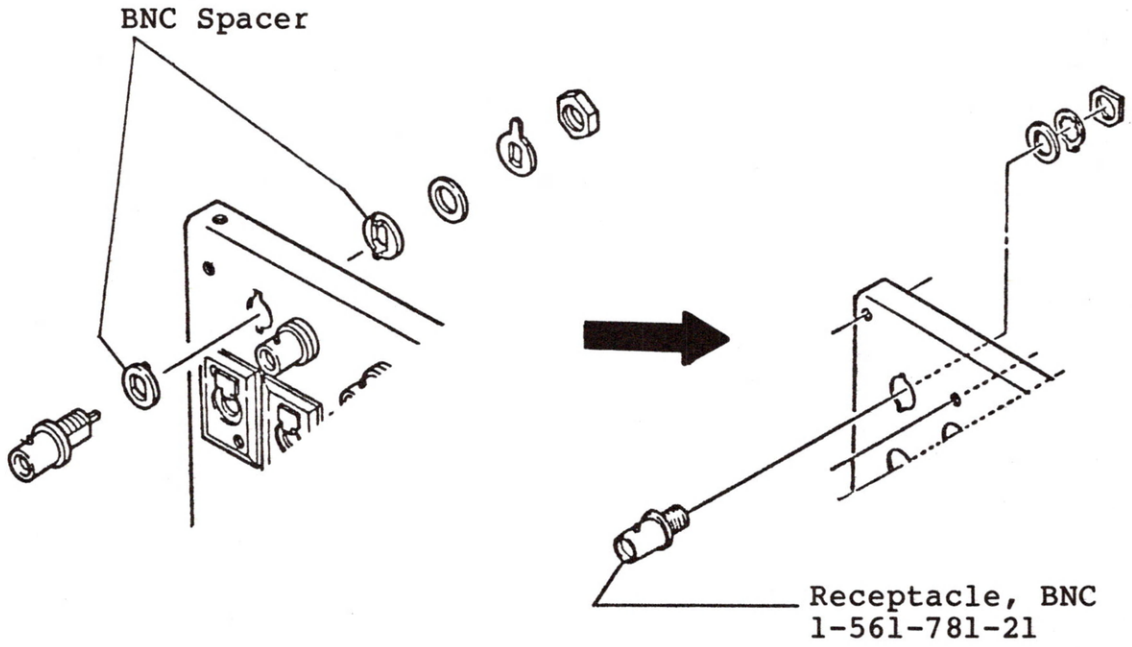
Date: Sept., 1982 **No.** 208

Model: DA-500

Subject:
CHANGE OF THE BNC CONNECTOR

The BNC Connector has been changed, and the BNC Spacer has been eliminated.

(old) (new)



Factory modified serial numbers:

10251 and higher

The new part is compatible with all serial numbers.

ACCSSY

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Date: Sept., 1982 **No.** 209

Model: DXC-6000

CAMERA

Subject:

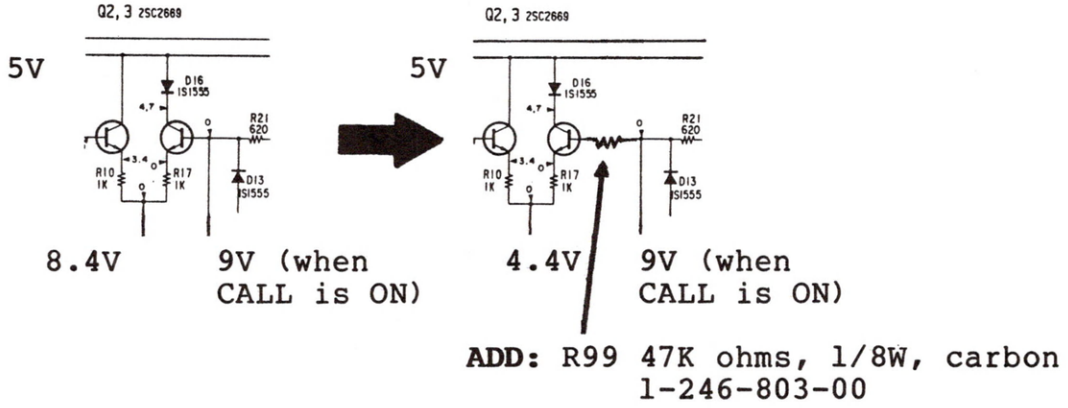
LAMP DOES NOT LIGHT WHEN THE CALL SWITCH IS PUSHED

While using the DXC-6000 with a CCU-6000, if the TALLY/WB/REC LAMP in the Viewfinder does not light when the CALL SWITCH is pressed, perform the following modification.

IF-10 Board

1. Cut the pattern between Q3 (2SC2669) and R21.

2. Add R99 between the base of Q3 and R21 on the foil side.



ADD: R99 47K ohms, 1/8W, carbon
1-246-803-00

Factory modified serial numbers:

50971 and higher

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TECHNICAL BULLETIN

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Sept., 1982 **No.** 210

Model: SEG-2000

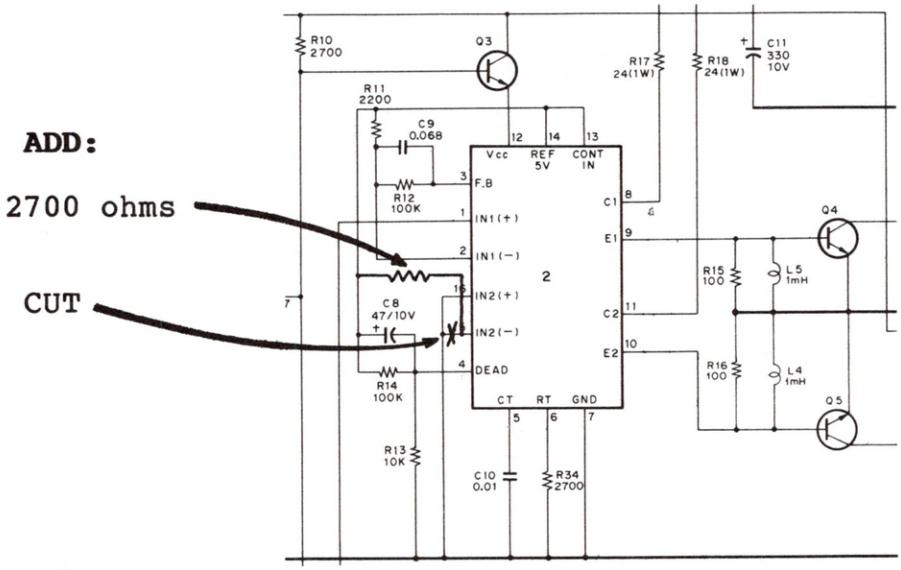
Subject:

INOPERATIVE SWITCHING REGULATOR

When using the unit in a high temperature location, if there is no power even though the POWER SWITCH is ON, or if the power goes OFF during use, perform the following modification.

Modification

1. Remove the SWITCHING REGULATOR from the main unit.
2. Remove the PW-85 Board from the SWITCHING REGULATOR.
3. Cut Pin 15 of IC2 MB3759.
4. Add a 2700 ohms, 1/8W carbon resistor (1-246-788-00) between Pins 13 and 15 of IC2.



5. Glue the resistor to the IC.

Factory modified serial numbers:

10261 and higher

PERIPHERAL

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VTR

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Sony Drive, Park Ridge, N.J. 07656

Date: Sept., 1982 **No.** 211

Model: VO-5850

Subject:

CHANGE OF THE PACKING MATERIAL PART NUMBERS

The Part Numbers for the Packing Material have been changed.

	(old)		(new)
Cushion (Lower, Front)	3-668-992-00	→	3-672-714-00
Cushion (Lower, Rear)	3-668-993-00	→	3-672-715-00
Cushion (Upper, Rear)	3-668-994-00	→	3-672-716-00
Cushion (Upper, Front)	3-668-995-00	→	3-672-717-00

Ref: VS-82-1079

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TECHNICAL BULLETIN

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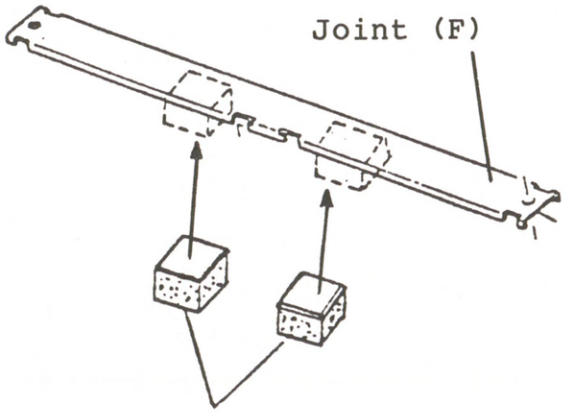
Date: Nov., 1982 **No.** 212R

Model: U-matic 5000 Series

Subject:
CHANGES IN THE CASSETTE-UP COMPARTMENT

Lid Cushions have been added to the Lid, and the lid opening unit and lamp holder unit have been changed.

Lid Cushion



Cushion, Lid
3-672-926-00

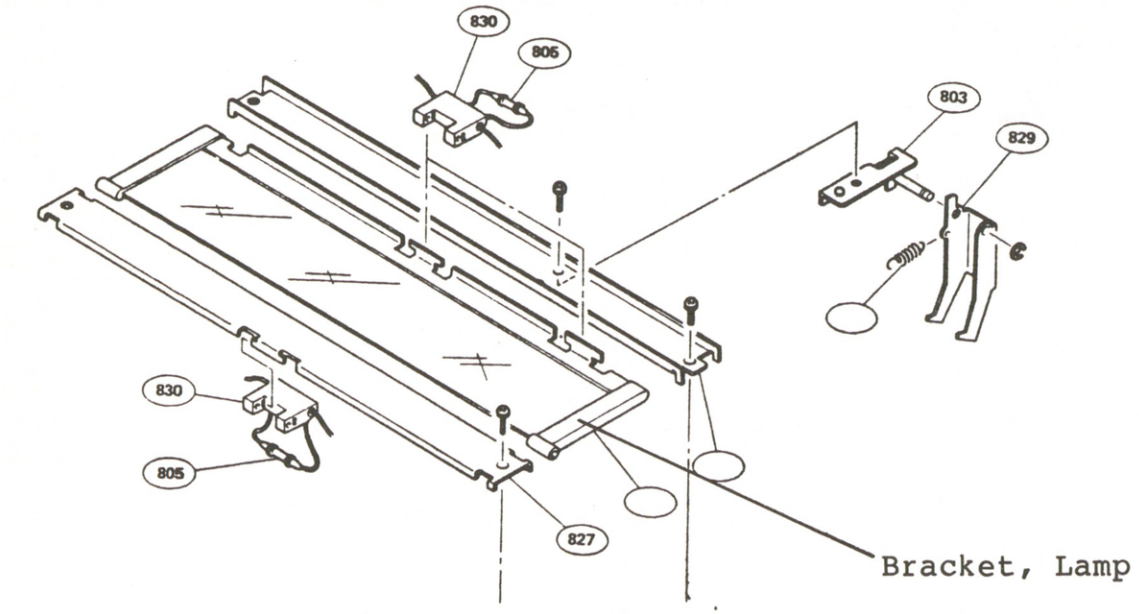
Factory modified models and serial numbers:

VO-5600.....14651 and higher
VO-5630.....10201 and higher
VO-5800.....11041 and higher
VO-5850.....13891 and higher
VP-5000.....15351 and higher
VP-5030.....10301 and higher

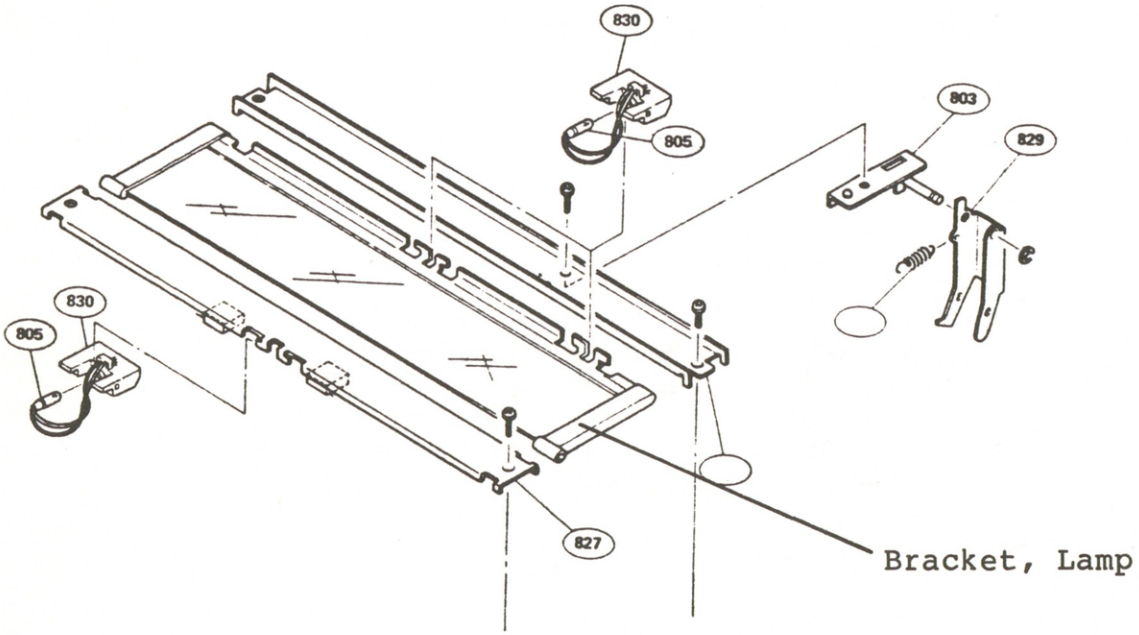
The new part is compatible with all models and serial numbers.

Lid Opening and Lamp Holder Units

(old)



(new)



Factory modified models and serial numbers:

VO-5600.....14651 and higher
VO-5630.....10201 and higher
VO-5800.....11041 and higher
VO-5850.....14741 and higher
VP-5000.....17351 and higher
VP-5030.....10301 and higher

The following table indicates the interchangeability of the old and new parts.

			Models and Serial Numbers		
			VO-5600	14650 and lower	14651 and higher
			VO-5630	10200 and lower	14651 and higher
			VO-5800	11040 and lower	11041 and higher
			VO-5850	14740 and lower	14741 and higher
			VP-5000	17350 and lower	17351 and higher
			VP-5030	10300 and lower	17351 and higher
Part Name	Ref		Part Number		
Holder Ass'y, Arm	803	old	X-3668-060-0	YES	NO
		new	X-3668-060-3	NO	YES
Lamp, Pilot	805	old	1-518-455-00	YES	NO
		new	1-518-508-00	NO	YES
Joint (F), Left & Right	827	old	3-668-308-00	YES	NO
		new	3-668-308-03	YES	YES
Arm, Lid Open	829	old	3-668-310-00	YES	NO
		new	3-668-310-02	NO	YES
Holder, Lamp	830	old	3-668-314-00	YES	NO
		new	3-668-314-02	NO	YES

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SONY COMMUNICATIONS PRODUCTS COMPANY
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Sony Drive, Park Ridge, N.J. 07656

Date: Oct., 1982 **No.** 213

Model: DXC-6000

CAMERA

Subject: PICK-UP TUBE REPLACEMENT PARTS

When replacing the pick-up tubes, a SATICON green channel tube may be used to replace either a red or blue channel tube. However, a red or blue channel tube may not be used as a substitute for either of the other two tubes.

Ref: VS-82-1086

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Date: Nov., 1982 **No.** 214

Model: VO-5850

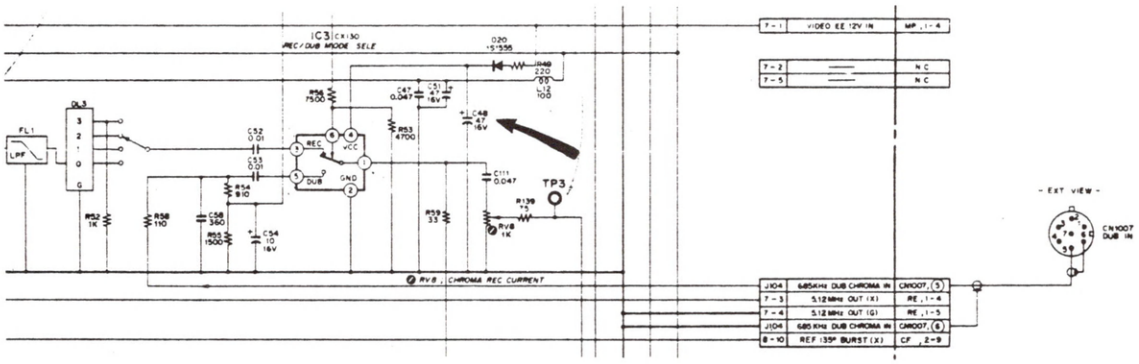
Subject:
NO COLOR DURING EDITING

If there is no color during editing at the cut-in point, perform the following modification.

MP-12 Board

CHANGE:

	(old)		(new)
C48	47µF/16V	⟶	1µF/50V 1-123-380-00



Factory modified serial numbers:

13691 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 215

Model: VO-5850

Subject:

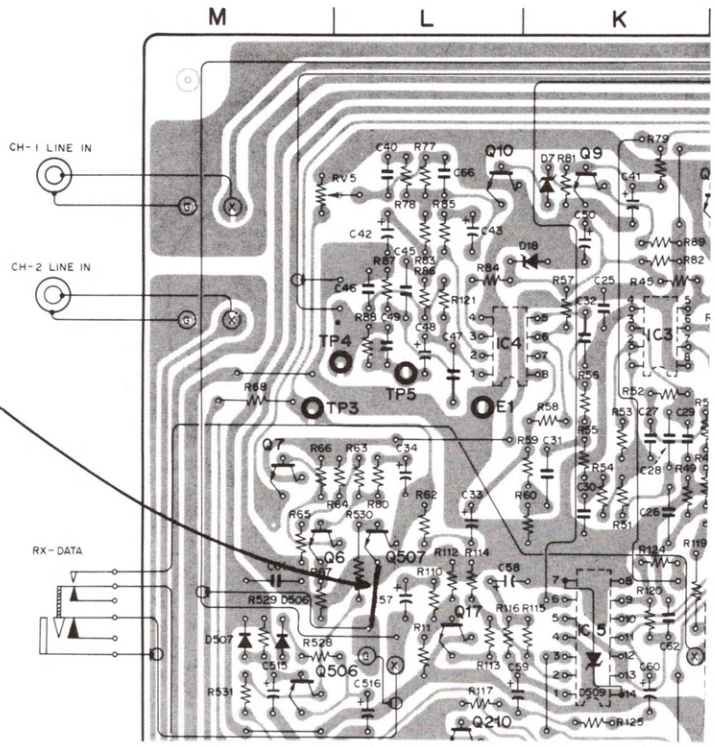
STATIC PROTECTION OF THE AU-21 BOARD

IC5 and IC501 in the RX353 REC DATA circuit of the AU-21 Board may be damaged by static electricity. Therefore, perform the following modification.

AU-21 Board

ADD:

jumper wire



Factory modified serial numbers:

10891 and higher

Ref: VS-82-1072, VTRW-82-1100

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 216

Model: VO-5850

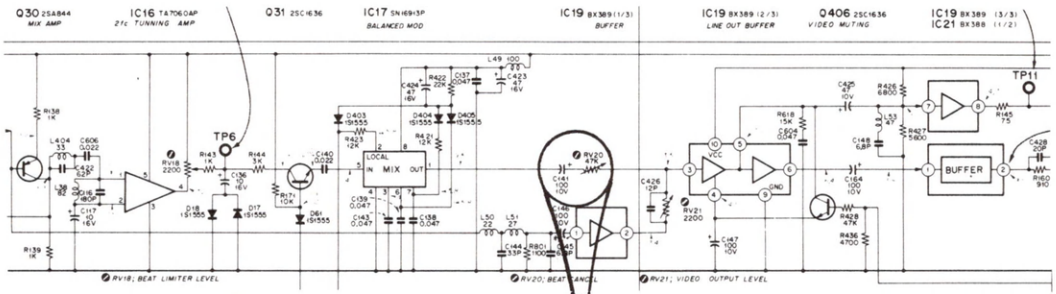
Subject:

CHANGE OF VD LEVEL DURING STILL MODE

If the VD LEVEL changes during the STILL mode, perform the following modification.

DM-22 BOARD

Replace: C141 100 µF/10V, electrolytic
1-123-307-00





C141 RV20
100 µF/10V 47K

When mounting the new capacitor on the board, reverse the position of the leads.

NOTE: The markings on the board and schematic are incorrect and should be reversed.

Factory modified serial numbers:

12791 and higher

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Date: Nov., 1982 **No.** 217

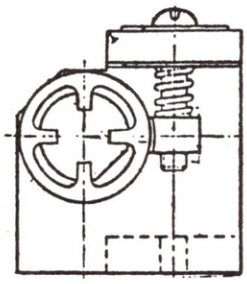
Model: LDP-1000

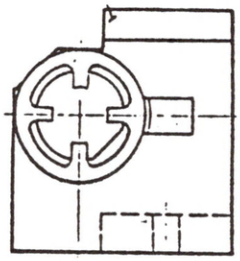
Subject:

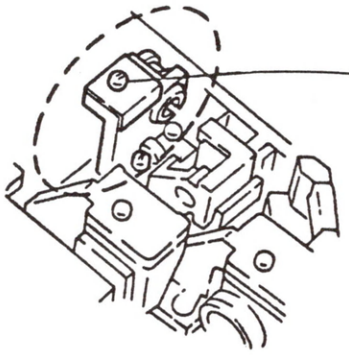
CHANGE OF THE WAVE LENGTH PLATE ASS'Y

The WAVE LENGTH PLATE ASS'Y has been changed, and the ADJUSTMENT SCREW has been eliminated.

(old)		(new)
Plate Ass'y, Wave Length A-6491-007-A	⟶	A-6491-007-B







Factory modified models and serial numbers:

LDP-1000.....21883 and higher
LDP-1000(FD).....14021 and higher

The new part is compatible with all models and serial numbers.

VDP

Ref: VTRW-82-1106

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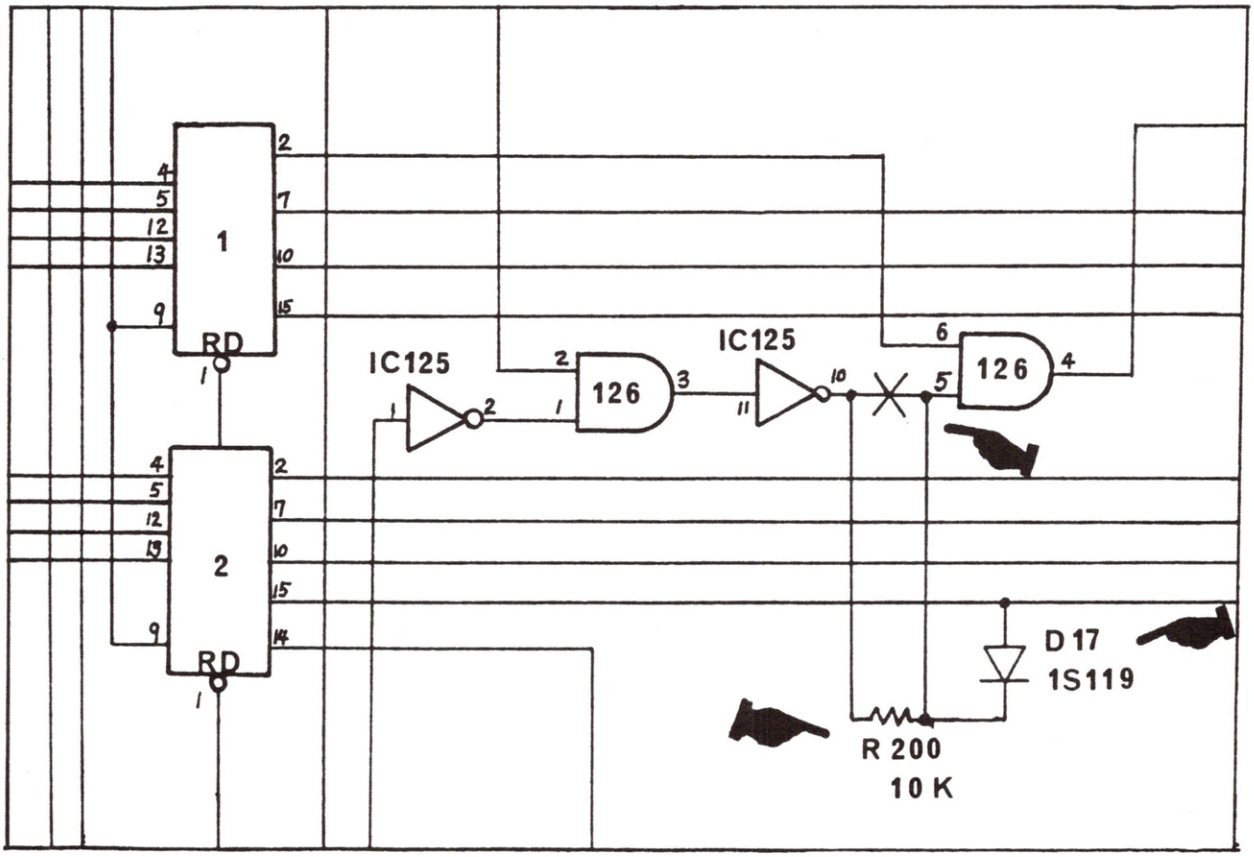
Date: Nov., 1982 **No.** 218

Model: VO-5850

Subject:

SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual, Supplement 2 (page 14-79)



Ref: VTRW-82-1111

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 219

Model: LDP-1000

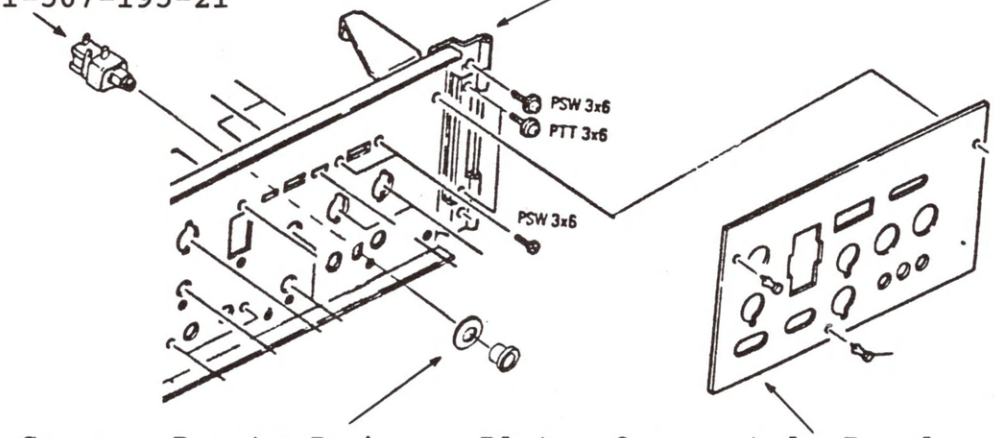
Subject:

ADDITION OF A REMOTE CONTROL JACK

A REMOTE CONTROL JACK and a REMOTE JACK SPACER have been added. The ORNAMENTAL PANEL PLATE and the CONNECTOR PANEL SUB-ASS'Y have also been changed.

Jack, Remote Control
1-507-195-21

Panel Sub-ass'y, Connector
X-3667-225-0 ⟶ X-3667-225-4



Spacer, Remote Jack
3-667-512-00

Plate, Ornamental, Panel
3-667-591-00 ⟶ 3-667-591-05

The following table indicates the interchangeability of the old and new parts.

Models and Serial Numbers		LDP-1000 / LDP-1000FD	22180 and lower / 14020 and lower	22181 and higher / 14021 and higher
Part		Part Number		
Panel Sub-ass'y, Connector	old	X-3667-225-0	YES	NO
	new	X-3667-225-4	YES	YES
Plate, Ornamental, Panel	old	3-667-591-00	YES	NO
	new	3-667-591-05	NO	YES
Jack, Remote Control	new	1-507-195-21	NO	YES
Spacer, Remote Jack	new	3-667-512-00	NO	YES

VDP

Ref: VTRW-82-1108

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 220

Model: RM-555

Subject:

SERVICE MANUAL CORRECTION

Make the following corrections in your Service Manual.

(original) (correction)

Page 2-4

L	S DATA (R→P)	→ S DATA (R → V)
①	VIDEO SELECT ON/OFF	
②	AUDIO CH-1 SELECT ON/OFF	
③	AUDIO CH-2 SELECT ON/OFF	
④	SEARCH KEY	

Page 3-43

CT-28 (SIMULTANEOUS SYSTEM)

SERIAL NUMBER 10051 AND LATER → 10050 and earlier

A

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Date: Nov., 1982 **No.** 221

Model: U-matic 5000 Series

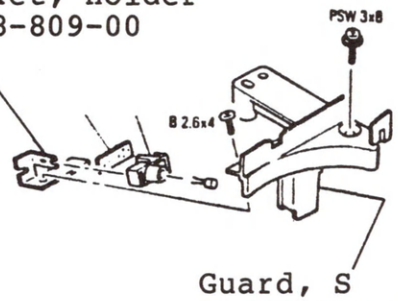
Subject:

CHANGE OF THE S TAPE END SENSOR

The position of the S TAPE END SENSOR has been changed.

(old)

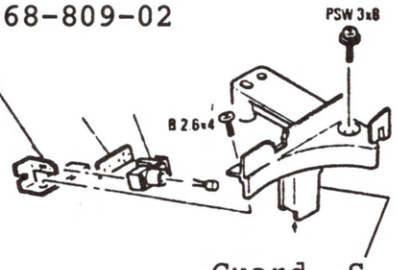
Bracket, Holder
3-668-809-00



Guard, S
3-668-836-00

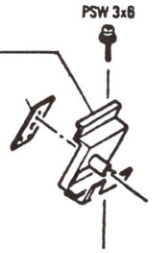
(new)

Bracket, Holder
3-668-809-02



Guard, S
3-668-836-00

Holder (S)
3-668-832-00



Holder (S)
3-668-832-02



The new parts are compatible with all models and serial numbers. However, the new parts must be considered as a set. Therefore, when replacing any one of the old parts with a new part, the other two old parts must also be replaced with new parts.

Factory modified models and serial numbers:

VO-5600.....18451 and higher
VO-5630.....10351 and higher
VO-5800.....12141 and higher
VO-5850.....16041 and higher
VP-5000.....19351 and higher
VP-5030.....10301 and higher

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Date: Nov., 1982 **No.** 222

Model: VO-5630, VP-5030

Subject:

CHANGE OF THE UPPER DRUM ASS'Y

The UPPER DRUM ASS'Y has been changed.

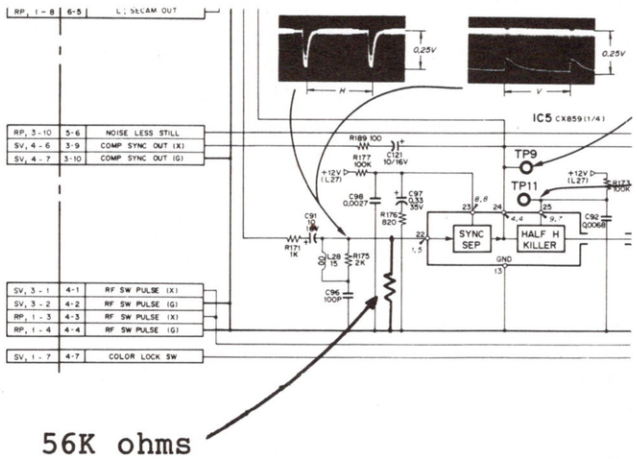
(old)		(new)
Upper Drum Ass'y		
Drum Ass'y, Upper, RV-5(RP) A-6709-136-A	⟶	Drum Ass'y, Upper, DUR-23-R A-6709-400-A
Drum Ass'y		
Head Drum Ass'y, DUH-05A-R A-6709-416-A	⟶	Head Drum Ass'y, DUH-23A-R A-6709-392-A

Factory modified models and serial numbers:

VO-5630.....10201 and higher
VP-5030.....10301 and higher

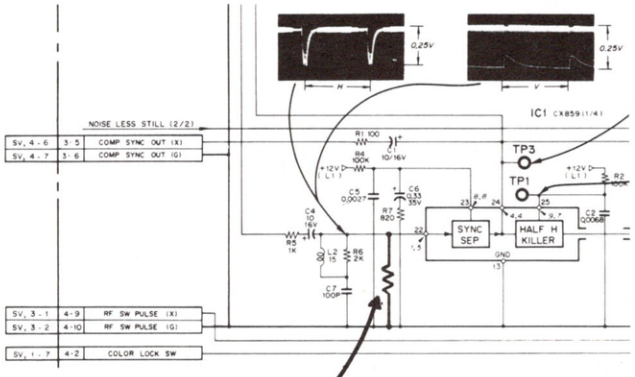
When replacing the part in models with earlier serial numbers, also perform the following modification.

VO-5630: YC-5 Board



ADD: 56K ohms
(between pin 22 of IC5 and GND)

VP-5030: VP-13 Board



ADD: R252 56K ohms
(between pin 22 of IC1 and GND)

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 223

Model: U-matic 5000 Series

Subject:

TAPE SNAG IN THE EJECT MODE

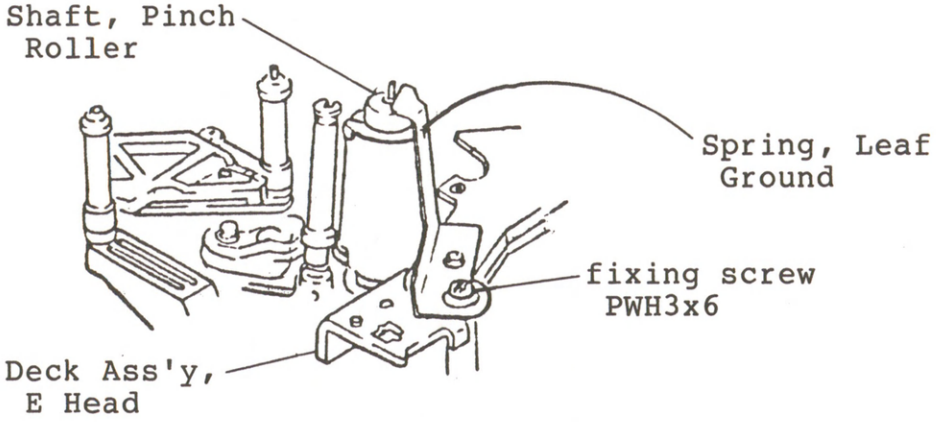
If the tape becomes snagged on the (tape extracting) GUIDE in the EJECT mode, perform the following modification.

Modification

ADD: Spring, Leaf, Ground
3-669-963-00

Procedure:

(1) Remove the fixing screw from the E Head Deck Ass'y.
(2) Attach the Ground Leaf Spring, and retighten the fixing screw.



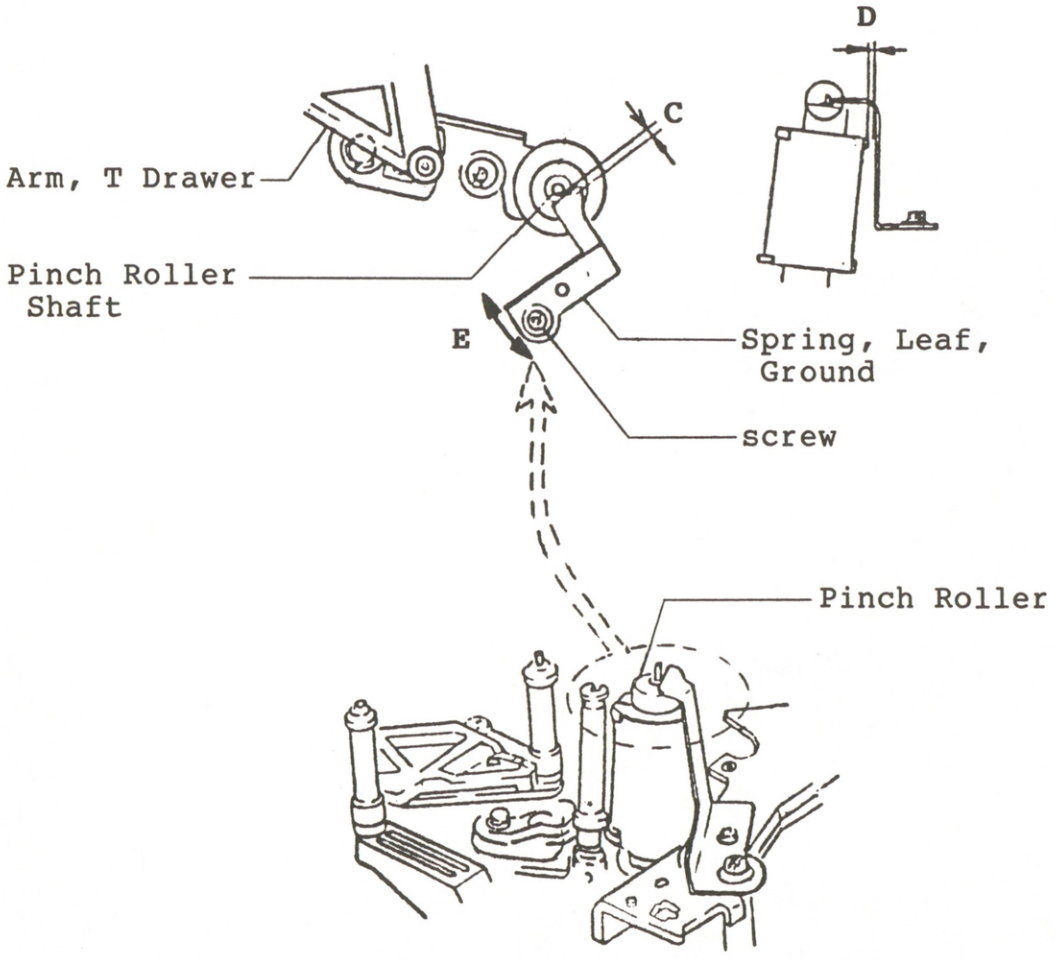
Ground Leaf Spring Adjustment Procedure

1. Put the unit into the EJECT mode (after completion of PLAY).

2. Check to see that the position of the Ground Leaf Spring is within the specifications.

   Specifications: Ⓒ The Ground Leaf Spring touches the Pinch Roller Shaft.

   Ⓓ The Ground Leaf Spring does not touch the Pinch Roller or the Pinch Roller Cap.



3. If necessary, loosen the fixing screw and move the Ground Leaf Spring in the direction indicated (Arrow E) until it is within the specifications. Retighten the fixing screw.

The new part is compatible with all serial numbers.

Factory modified models and serial numbers:

VO-5600.....10951 and higher
VO-5630.....10001 and higher
VO-5800.....10041 and higher
VO-5850.....12791 and higher
VP-5000.....10951 and higher
VP-5030.....10001 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 224

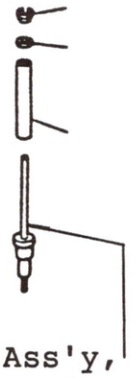
Model: U-matic 5000 Series

Subject:

CHANGE OF THE PRECEDING ROLLER SHAFT ASS'Y

The PRECEDING ROLLER SHAFT ASS'Y has been changed, and a THRUST WASHER has been added.

(old)



Shaft Ass'y,
Roller, Preceding
X-3668-724-0

(new)



Shaft Ass'y,
Roller, Preceding
X-3668-724-3

The new part is compatible with all models and serial numbers.

Factory modified models and serial numbers:

VO-5600.....18451 and higher
VO-5630.....10201 and higher
VO-5800.....11891 and higher
VO-5850.....15541 and higher
VP-5000.....19351 and higher
VP-5030.....10301 and higher

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 225

Model: All Products

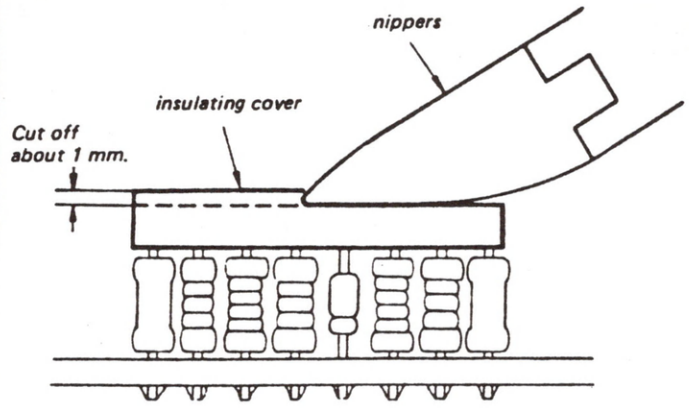
Subject:

REPAIR OF BLOCKED CIRCUIT PARTS

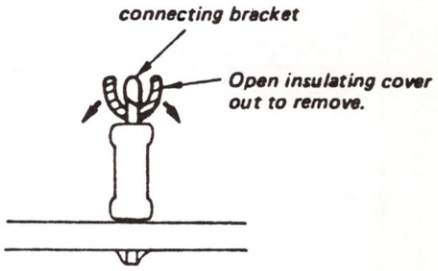
When repairing block circuit parts, such as diode blocks or resistor blocks, follow the procedure listed below.

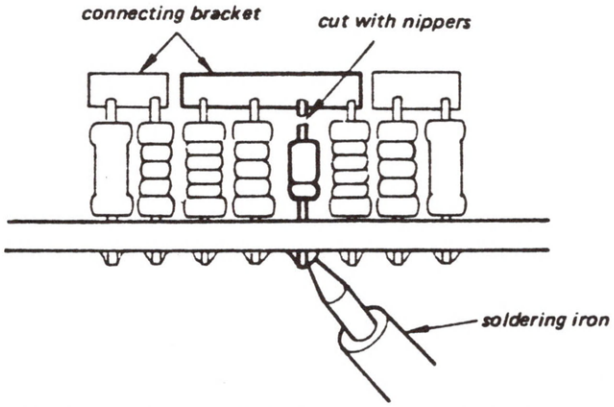
Ref: VTRW-82-1125

REPAIR METHOD FOR HYBRID CIRCUIT BLOCK

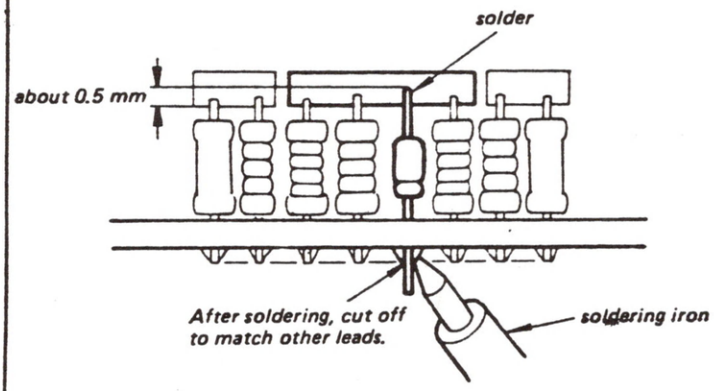


Using nippers, cut off the upper portion of the insulating cover about 1 mm, exposing the top of the connecting brackets.

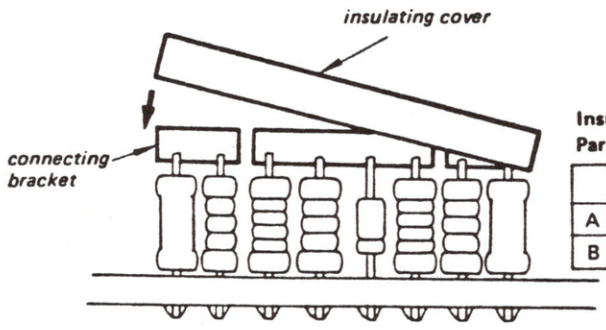




Cut off the lead of the defective part with nippers. Remove solder and take out the defective part.



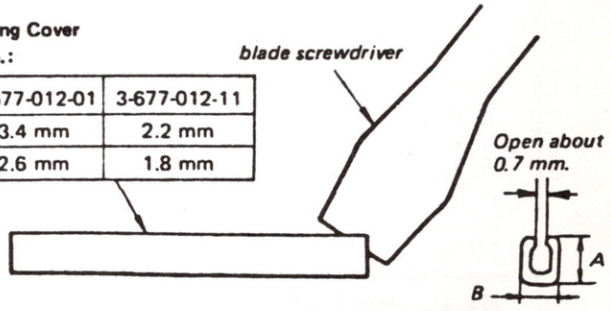
Insert the new part on the board and solder the lead to the board. Cut off the lead on the connecting bracket side so that it overlaps by about 0.5 mm, and solder to the connecting bracket.



Open the insulating cover groove about 0.7 mm and place over the connecting brackets, positioning one end first.

Insulating Cover Part No.:

	3-677-012-01	3-677-012-11
A	3.4 mm	2.2 mm
B	2.6 mm	1.8 mm



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Date: Nov., 1982 **No.** 226

Model: VO-5800, VO-5850

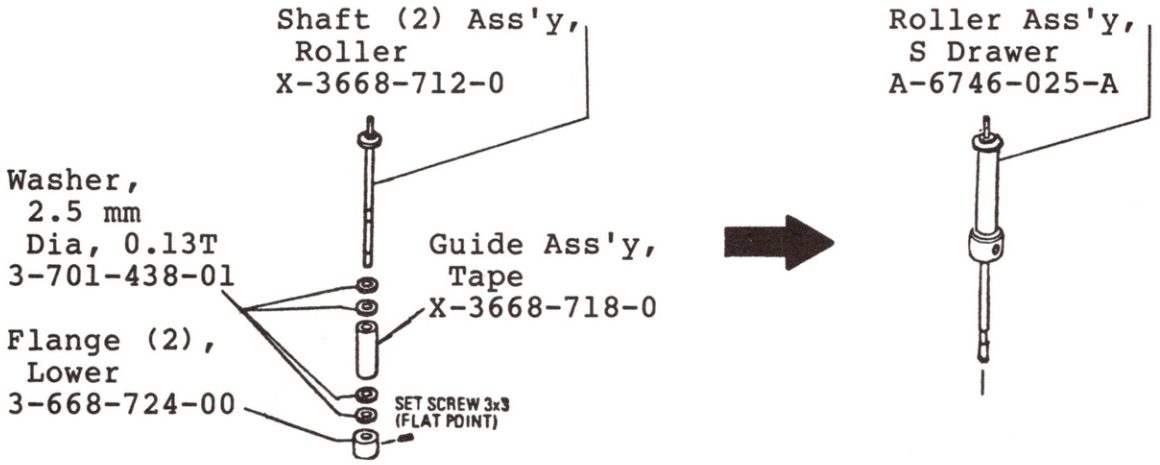
Subject:

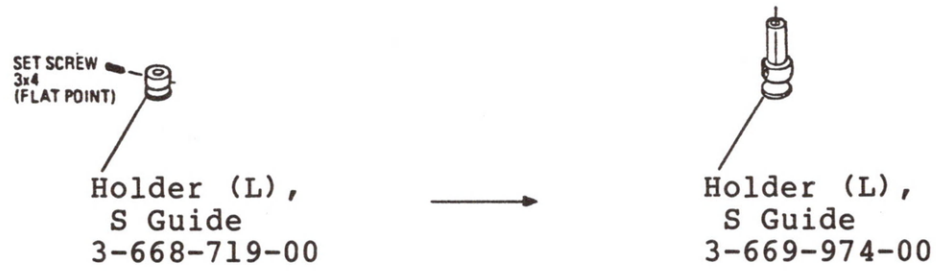
CHANGE OF THE S DRAWER ROLLER

The S DRAWER ROLLER and TENSION SPRINGS have been changed.

S Drawer Arm

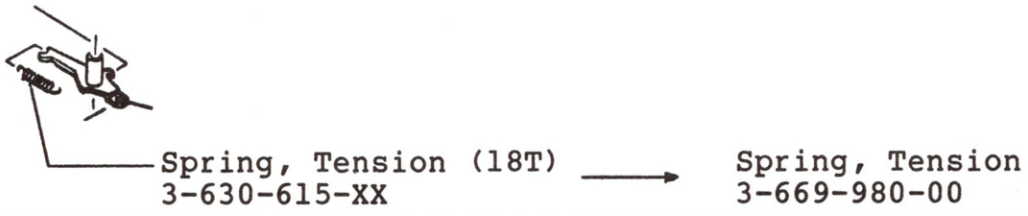
(old) (new)





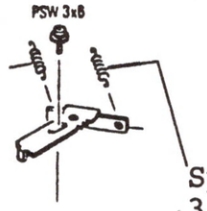
Reel Chassis (2)

(old) (new)



Erase Head Base

(old) (new)



Spring, Tension (23T) 3-534-238-XX ⟶ Spring, Tension 3-669-979-00

Factory modified models and serial numbers:

VO-5800.....12141 and higher
VO-5850.....16041 and higher

The following table indicates the interchangeability of the old and new parts.

		Models and Serial Numbers		
		VO-5800	12140 and lower	12141 and higher
		VO-5850	16040 and lower	16041 and higher
Part Name		Part Number		
Shaft (2) Ass'y, Roller	old	X-3668-712-0	YES	NO
Guide Ass'y, Tape	old	X-3668-718-0	YES	NO
Washer, 2.5mm, Dia., 0.13T	old	3-701-438-01	YES	NO
Flange (2), Lower	old	3-668-724-00	YES	NO
Roller Ass'y, S Drawer	new	A-6746-025-A	YES	YES
Holder (L), S Guide	old	3-668-719-00	YES	NO
	new	3-669-974-00	NO	YES
Spring, Tension (18T)	old	3-630-615-XX	YES	NO
Spring, Tension	new	3-669-980-00	NO	YES
Spring, Tension (23T)	old	3-534-238-XX	YES	NO
Spring, Tension	new	3-669-979-00	NO	YES

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 227

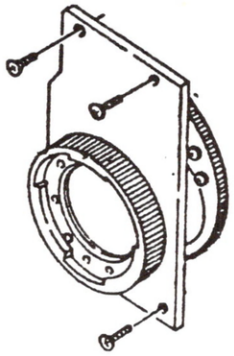
Model: DXC-6000

Subject: FILTER DISC REPLACEMENT

The replacement of the FILTER DISC differs according to the make of the prism. Replace the part(s), as indicated below, for each make.

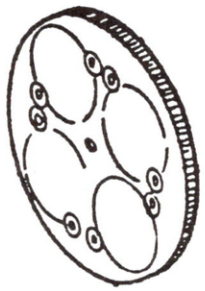
CANON Prism

Front Panel Ass'y
(with Filter Disc)
3-706-611-00



FUJINON Prism

Filter Disc
3-706-557-00



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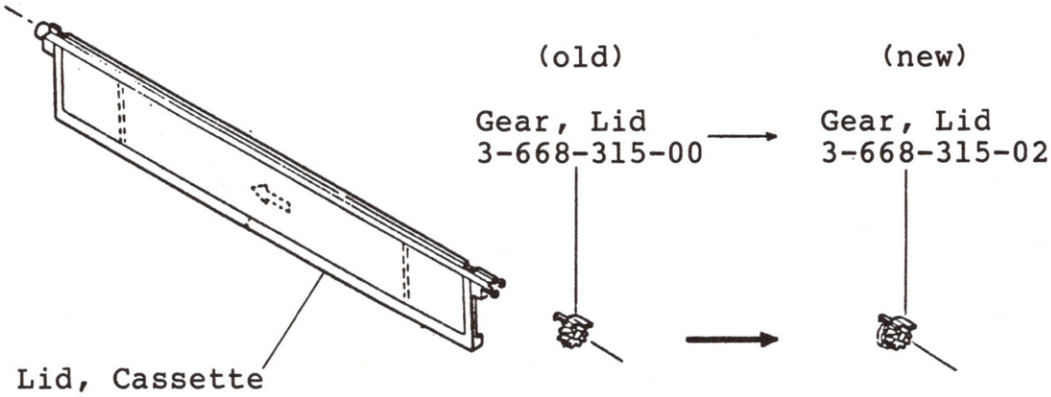
Date: Dec., 1982 **No.** 228R

Model: U-matic 5000 Series

Subject:

CHANGE OF THE CASSETTE-UP COMPARTMENT LID GEAR

The CASSETTE-UP COMPARTMENT LID GEAR has been changed.



The new part is compatible with all models and serial numbers.

Factory modified models and serial numbers:

VO-5600.....20451 and higher
VO-5630.....10501 and higher
VO-5800.....12691 and higher
VO-5850.....16211 and higher
VP-5000.....20351 and higher
VP-5030.....10601 and higher

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Date: March, 1983 **No.** 229R

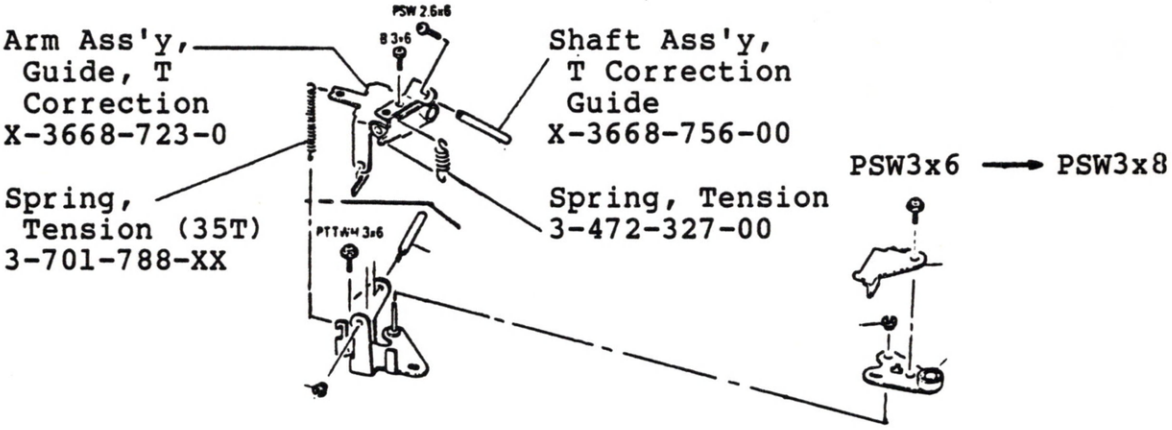
Model: U-matic 5000 Series

Subject:

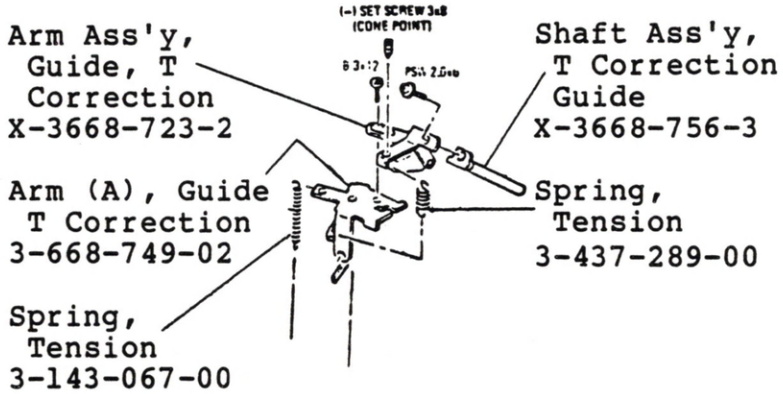
CHANGE OF THE T CORRECTION GUIDE PARTS

The parts of the T CORRECTION GUIDE have been changed.

(old)



(new)



Ref: VTRW-82-1130

The new part is NOT compatible with earlier serial numbers.

NOTE: For earlier serial numbers the T Correction Arm Ass'y Guide (X-3668-723-0) is a one piece parts. However, for later serial numbers two pieces are required -- T Correction Arm Ass'y Guide (X-3668-723-2) and Guide T Correction Arm (A) (3-668-749-02).

Factory modified models and serial numbers:

VO-5600.....17451 and higher
VO-5630.....10201 and higher
VO-5800.....11041 and higher
VO-5850.....14741 and higher
VP-5000.....19351 and higher
VP-5030.....10301 and higher

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Date: Nov., 1982 **No.** 230

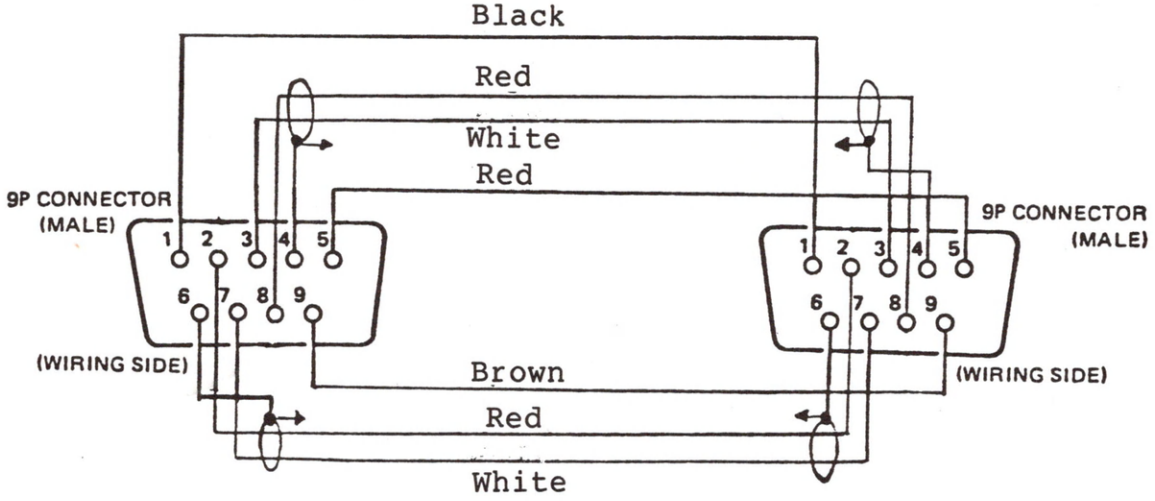
Model: Cable Connecting Manual

Subject: MANUAL CORRECTION

Make the following corrections in your Connecting Cable Manual (Rev. 1), RRC- G Cable (pages 52 & 53).

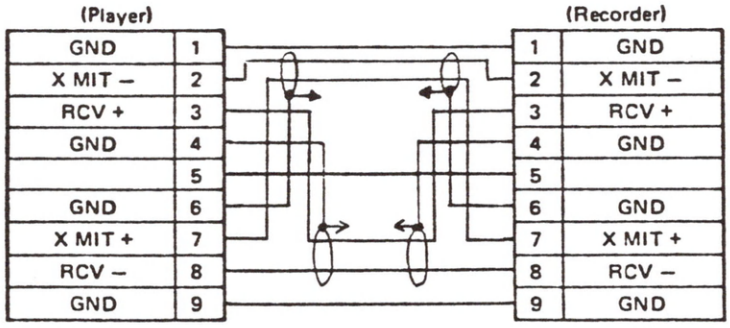
Page 52

Wiring Diagram



Page 53

Example of Connection



X MIT: TRANS-MIT
RCV : RECEIVE

ACCSSY

Ref: VS-82-1116, VTRW-82-1131

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VIDEO PRODUCTS TECHNICAL BULLETIN

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 231

Model: U-matic 5000 Series

Subject:

ADDITION TO PERIODIC CHECK AND MAINTENANCE

Make the following addition to your Service Manual, Section 3, Periodic Check and Maintenance (page 3-2).

* apply Sony oil ○ : cleaning ◆ : replace ◇ : check ◎ : apply a grease

Item	Part No. of Replacement Parts	Operating Hours (H) 500	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	Remarks
Tape path cleaning	———	○	○	○	○	○	○	○	○	○	○	Perform whenever repair work is attempted
Apply Sony oil to the reel shaft	———	–	*	–	*	–	*	–	*	–	*	Ref. to sec. 5-1-2
Apply a grease on the ring rollers	———	–	◎	–	◎	–	◎	–	◎	–	◎	Apply a grease on the surface of the ring roller
Check the FWD back tension	———	–	◇	–	◇	–	◇	–	◇	–	◇	Refer to sec. 6-6
Check the FWD torque	———	–	◇	–	◇	–	◇	–	◇	–	◇	Refer to sec. 6-3
Check the REV torque	———	–	◇	–	◇	–	◇	–	◇	–	◇	Refer to sec. 6-4
Check the brake torque	———	–	–	–	◇	–	–	–	◇	–	–	Refer to sec. 6-1

Ref: VTRW-82-1133

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Date: Nov., 1982 **No.** 232

Model: VO-5850

Subject:
SERVICE MANUAL CORRECTION

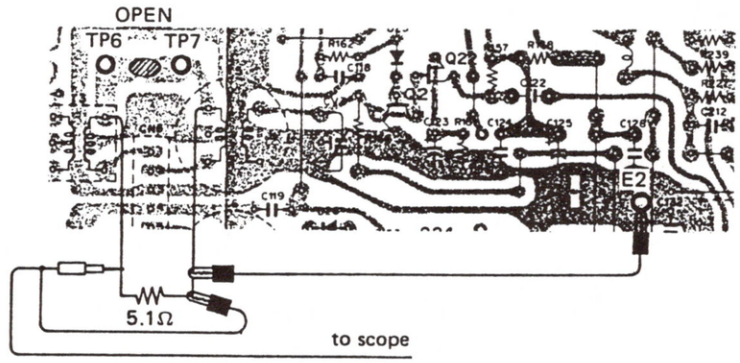
Make the following corrections in your Service Manual

11-6-2. Y-REC Current Level Adjustment

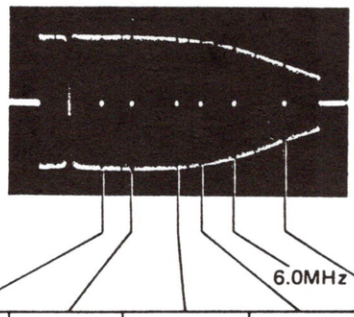
machine conditions for adjustment & spec.	adjustment
• VIDEO IN; NTSC color bar signal. • Record mode. • Connect temporarily 5.1Ω Resistor between TP6 (TP8) and TP7 (TP9) on MP-12 board. ( ) CH-B • Short between TP7 (TP9) and E2 on MP-12 board. ( ) CH-B • Unsolder temporarily between TP6 (TP8) and TP7 (TP9) on MP-12 board. ( ) CH-B OPEN TP6 TP7 E2 5.1Ω to scope waveform of between TP6(TP8) and TP7(TP9) 290mV±25mV	RV6/MP-12 TRIG; TP1/SV-31

11-6-1. Y-REC Current Frequency Response Adjustment

machine conditions for adjustment & spec.	adjustment
• VIDEO IN; Monoscope signal • Record mode • Turn RV6, RV8/MP-12 board ( ) fully counterclockwise • Connect temporarily 5.1Ω Resistor between TP6 (TP8) and TP7 (TP9) on MP-12 board. ( ) CH-B • Short between TP7 (TP9) and E2 on MP-12 board. ( ) CH-B • Unsolder temporarily between TP6 (TP8) and TP7 (TP9) on MP-12 board. ( ) CH-B • Connect Gated Sweep between TP4 and E11 on MP-12 board	CH-A Adj. ◐ RV7/MP-12 CH-B Adj. ◐ RV11/MP-12



waveform of between TP6(TP8) and TP7(TP9)



1.0 MHz	2.0 MHz	3.58 MHz	4.5 MHz	8.0 MHz
100% REF	100% +0 −5%	90% ±5%	85% ±5%	56% ±5%

TRIG; TP1/SV-31

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Date: Nov., 1982 **No.** 233

Model: AVC-1400

CAMERA

Subject:

CHANGE OF THE HORIZONTAL DEFLECTION OUTPUT TRANSISTOR

The HORIZONTAL DEFLECTION OUTPUT TRANSISTOR (Q27) on the D Board had been changed.

D Board

	(old)		(new)
Q27	2SC1124 8-725-412-00	⟶	2SC1124-12 8-725-412-04

Ref: VS-82-1128, VTRW-82-1136

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 234

Model: SEG-2000

Subject:

CROSS TALK IN PROGRAM OUT

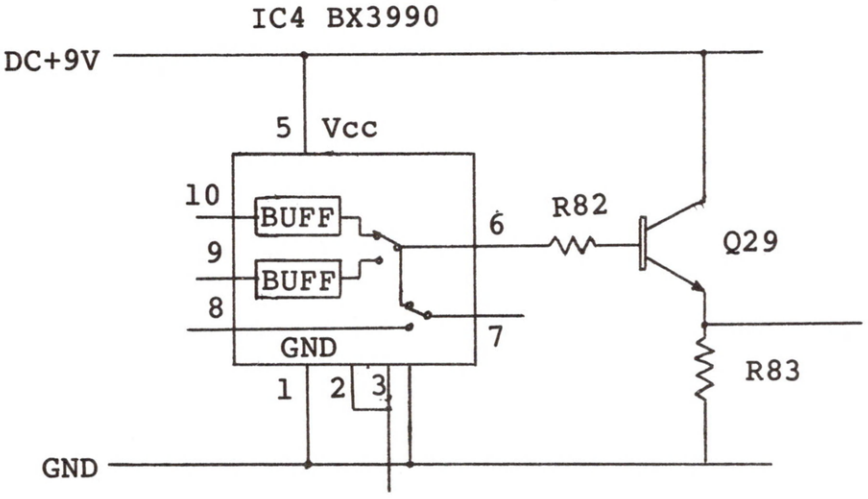
When the Program BUS is set to AUX and the PST BUS camera inputs #1 to #6 are pushed, if there is cross talk in the Program OUT, perform the following modification.

EF-10 Board

ADD: Q29 2SC2603
8-729-606-32

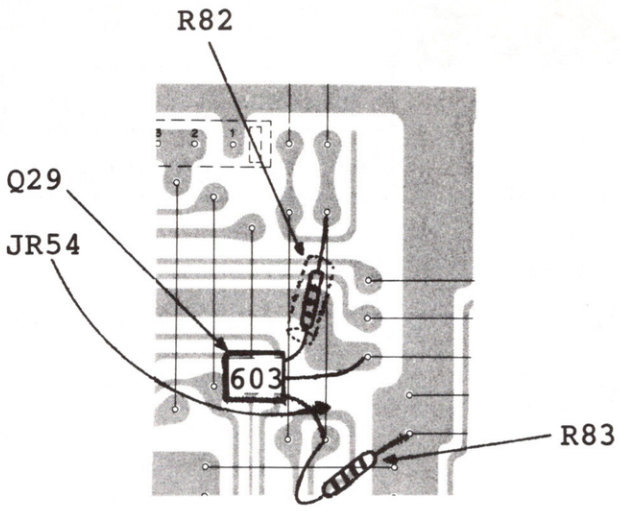
R82 470 ohms, 1/8W
1-246-779-00

R83 560 ohms, 1/8W
1-246-780-00



PERIPHERAL

(foil side of EF-10 Board)



Procedure

1. Remove JR54 (jumper wire).
2. Attach R83, and the emitter and collector of Q29. to the board at the points indicated.
3. Cut the base lead of Q29 to a length of 2-3 mm.
4. Attach R82 to the base of Q29.
5. Cover R82 with clear tubing, and attach it to Pin 6 of IC4.
6. Glue Q29, R82, and R83 to the board.

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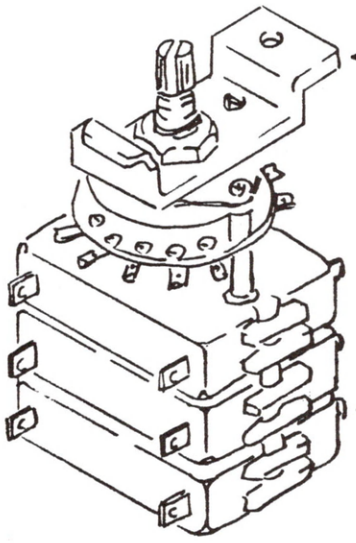
Date: Nov., 1982 **No.** 235

Model: SEG-2000

Subject:

CHANGE OF THE POWER SWITCH

The POWER SWITCH ASS'Y and the POWER SWITCH BRACKET have been changed. However, the wiring configuration has not changed.



	(old)	(new)
Bracket, Switch, Power	2-296-524-00	2-296-561-00
Power Switch Ass'y	1-553-918-11	1-554-359-11

NOTE: The new Power Switch Ass'y must be used with the new Power Switch Bracket.

Factory modified serial numbers:

10301 and higher

PERIPHERAL

Ref: VS-82-1104, VTRW82-1144

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Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 **No.** 236R

Model: VO-5850

Subject:

NO SLOW OR REV MODE WITH THE RM-430

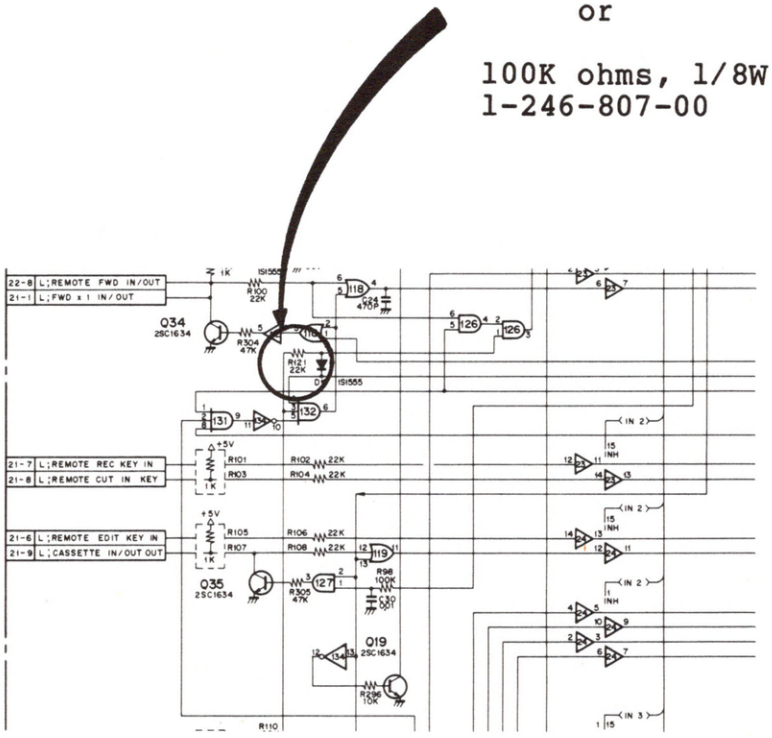
When the VO-5850 is used with the RM-430, if it will not go into SLOW or REV mode, perform the following modification.

SY-68 Board

R121 22K ohms ⟶ 100K ohms, 1/4W
1-246-521-00

or

100K ohms, 1/8W
1-246-807-00



Factory modified serial numbers:

13891 and higher

Ref: VS-82-1105

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Date: Nov., 1982 **No.** 237

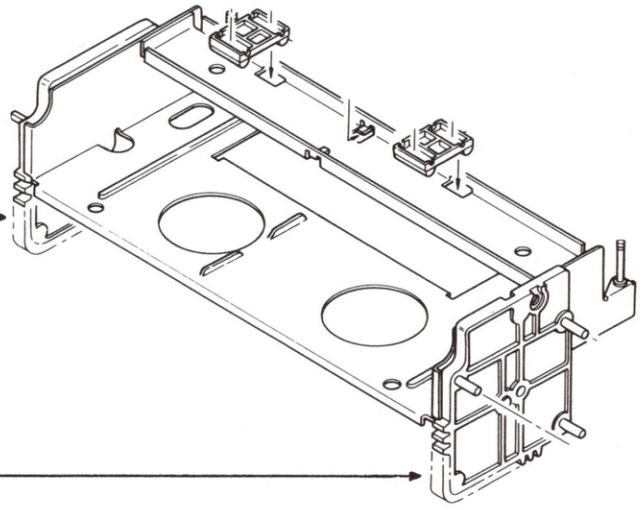
Model: U-matic 5000 Series

Subject:

CASSETTE COMPARTMENT RACK ASS'Y PART NUMBERS

The CASSETTE COMPARTMENT RACK ASS'Y's have been changed, and Part numbers have been added.

Cassette Compartment
Rack Ass'y (L)
X-3668-058-2 →



Cassette Compartment
Rack Ass'y (R) →
X-3668-057-2

Factory modified serial numbers:

VO-5600.....18451 and higher
VO-5630.....10201 and higher
VO-5800.....11541 and higher
VO-5850.....15541 and higher
VP-5000.....19351 and higher
VP-5030.....10601 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 238

Model: VO-5600, VO-5630, VP-5000, VP-5030

Subject: CHANGE OF THE SYSTEM CONTROL CIRCUIT

The SYSTEM CONTROL circuit (SY-75 Board) has been changed.

(old)		(new)
SY-75 Board A-6717-249-C	⟶	A-6717-249-D

Factory modified models and serial numbers:

VO-5600.....18451 and higher
VO-5630.....10501 and higher
VP-5000.....19351 and higher
VP-5030.....10601 and higher

NOTE: The old and the new boards are NOT interchangeable. Therefore, the S-PHOTO SENSOR ASS'Y must also be changed to use a new board in a unit with an earlier serial number.

S-PHOTO SENSOR ASS'Y:
- Bracket, Holder 3-668-809-02
- Holder (S) 3-668-836-02
- Guard, S 3-668-832-02

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Sony Drive, Park Ridge, N.J. 07656

Date: Jan., 1984 **No.** 239R2

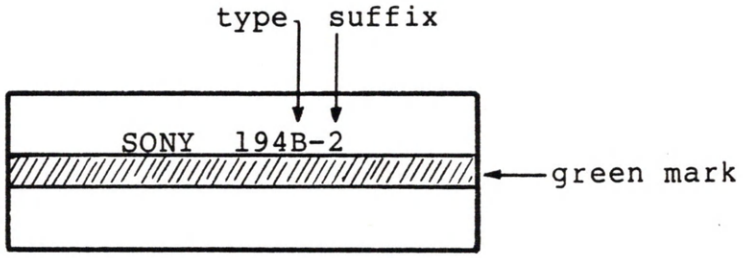
Model: U-matic 5000 Series

Subject:

CHANGE OF IC CX-194 ON THE SV BOARD

IC CX-194 on the SV Board has changed. Use the version of the IC indicated in the table when replacing the IC in a unit.

Model	Board	IC	Service IC & Part No.	Identifying Mark
VO-5600	SV-44	IC6	CX-194B-3 8-751-941-03	green mark
VO-5630	SV-44A	IC6	CX-194B-2 8-751-941-02	"2" suffix
VO-5800	SV-47	IC7	CX-194B-3 8-751-941-03	green mark
VO-5850	SV-31	IC7	CX-194B-3 8-751-941-03	green mark
VP-5000	SV-44B	IC6	CX-194B-3 8-751-941-03	green mark
VP-5030	SV-44C	IC6	CX-194B-2 8-751-941-02	"2" suffix



In addition, when replacing the IC's with the CX-194**B**, the following alignment procedures and/or modification must be performed.

Ref: VS-82-1127, VS-82-1137, VTRW-83-1026

Alignment Procedure

1. U-matic 5000 Series (except VO-5850)

   a. Section 8-3 Digital VCC +5V Adjustment for Servo

   b. Section 9-7 Drum AFC Bias Adjustment

   c. Section 9-8 Drum AFC Transient Adjustment

2. VO-5850

   a. Perform the adjustment indicated for the appropriate serial number.

      (1) Section 4-8 Replacement of CX-194

      Affected serial numbers:

      10001-10440

      (2) VCC Adjustment for Servo IC (See below)

machine conditions for adjustment	spec.	adjustment
• More than 5 minutes should be elapsed after POWER ON. • STOP (E-E) mode.	TP37/SV-31 5.0 V ± 0.1 V dc	RV17/SV-31

Affected serial numbers:

10441 and higher

   b. Section 9-7 Drum AFC Bias Adjustment

   c. Section 9-8 Drum AFC Transient Adjustment

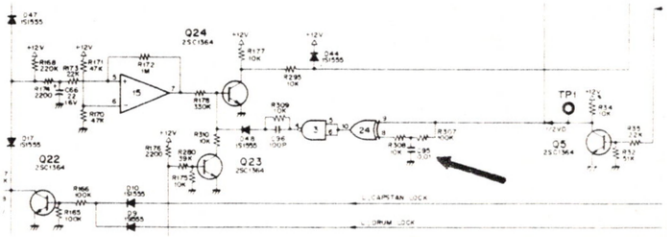
Modification

VO-5800 & VO-5850

SV Board

(old) (new)

CHANGE: C95 0.01µF ⟶ 0.047µF
1-108-595-00



THIS BULLETIN SUPERSEDES TECHNICAL BULLETIN NO. 150

SONY®

VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Nov., 1982 **No.** 240

Model: U-matic Series

Subject:

SERVICE ALIGNMENT TAPE

The SERVICE ALIGNMENT TAPE has been change.

(old) (new)

RR5-2SA (NTSC)

8-960-015-02 ⟶ 8-960-015-03

RR5-2SA (PAL)

8-960-015-62 ⟶ 8-960-015-63

D.O.C. Segment

	old	new
NTSC Signal	EIA Color Bars	Full Field Color Bars
PAL Signal	Full Field Color Bars	Full Field Color Bars
Drop Out	1 line	3 lines (2 lines added below)

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VIDEO PRODUCTS
TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 No. 241

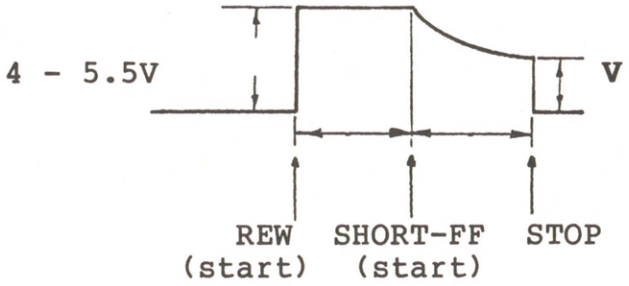
Model: VO-5600, VO-5030, VP-5000, VP-5030

Subject: REPLACEMENT OF IC36 (CX-757) ON THE SY-75 BOARD

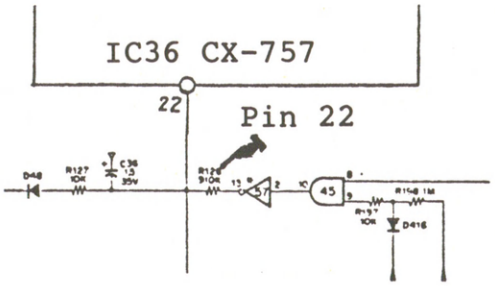
After replacing IC36 (CX-757) on the SY-75 Board, it is necessary to readjust the SHORT-FF.

Adjustment Procedure

1. After replacing CX-757, put the unit into the SHORT-FF mode. Check the waveform at Pin 22 of IC36 and measure the Voltage difference when you go from SHORT-FF to STOP.



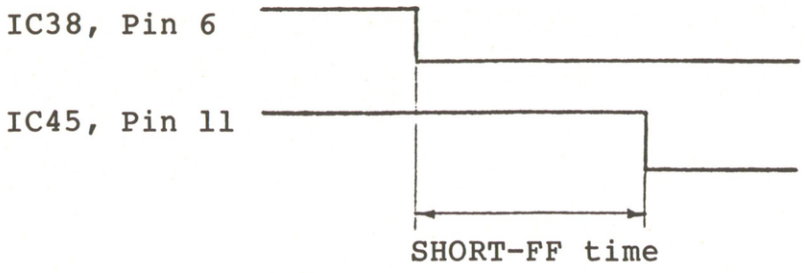
2. Adjust the value of R128 according to the following tables.



	Affected Models & Serial Nos.	
	VO-5600	10001-14650
	VO-5630	10001-10200
	VP-5000	10001-15350
Voltage of **V**	Value of R128	Part Number
V$\leq$2.4V	510K ohms	1-247-058-00
2.4V<**V**<2.9V	680K ohms	1-247-051-00
2.9V$\leq$**V**	1M ohms	1-247-053-00

	Affected Models & Serial Nos.	
	VO-5600	14651-19550
	VO-5630	10201-10500
	VP-5000	15351-19350
	VP-5630	10001-10300
Voltage of **V**	Value of R128	Part Number
V$\leq$2.3V	560K ohms	1-247-050-00
2.3V<**V**<2.65V	680K ohms	1-247-051-00
2.65V<**V**<3.0V	820K ohms	1-247-052-00
3.0V$\leq$**V**	1M ohms	1-247-053-00

3. After changing R128, check to see if the SHORT-FF time is within the specifications. Connect Ch-1 of a dual trace oscilloscope to Pin 6 of IC38 [TAPE BEGINNING (H) Output] and CH-2 to Pin 11 of IC45 [REEL FF/REW (H) Output].



Spec: 540 msec - 790 msec

If the SHORT-FF time is too long, replace R128 with a lower value from the appropriate table. If the SHORT-FF time is too short, replace R128 with a higher value from the appropriate table.

(See tables in Step 2)

Also See: **Technical Bulletin No. 238.**

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SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 **No.** 242

Model: VP-5000

Subject:
SERVICE MANUAL CORRECTION

Make the following corrections in your Service Manual.

Function Control Parts List (page 14-24)

(original)		(correction)
Mounted Circuit Board, KY-24 A-6728-398-A	⟶	A-6728-394-A

Ornamental Panel (2) Parts List (page 14-35)

(original)		(correction)
Panel (N) Ass'y, Key Board X-3672-602-3	⟶	X-3672-701-3

Ref: VTRW-82-1157

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 **No.** 243

Model: VO-5600, VP-5000

Subject:

TAPE JAM AT CASSETTE-UP

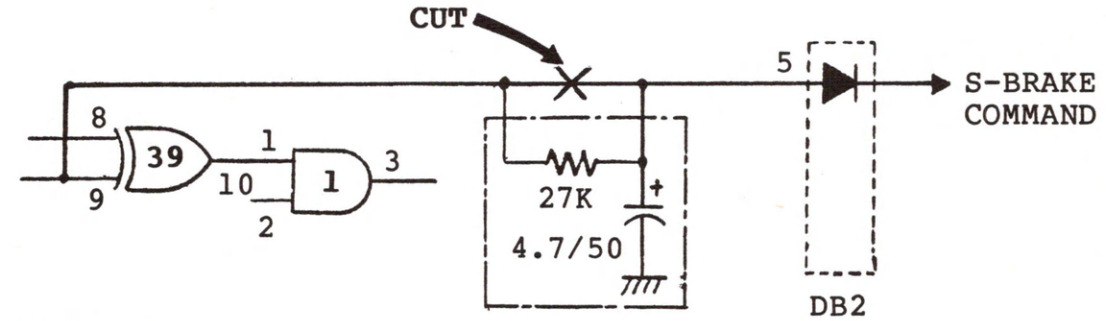
When using a non-SONY tape, if the tape is snagged by the cassette lid at the moment that the cassette comes up, then perform the following modification.

SY-75 Board

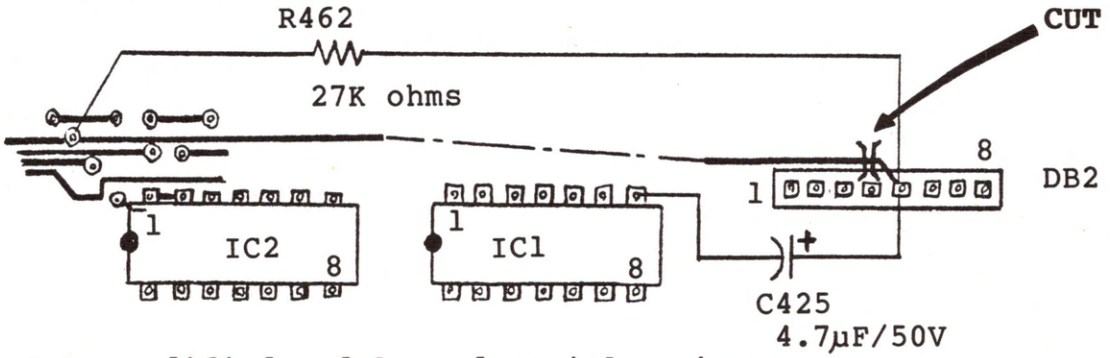
ADD: R462 27K ohms, 1/4W
1-246-507-00

C425 4.7µF/50V
1-123-369-00

Cut the pattern at the point indicated.



(Foil side)



Factory modified models and serial numbers:

VO-5600.....15651 and higher
VP-5000.....17351 and higher

Ref: VS-82-1112, VTRW-82-1164

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Date: Dec., 1982 **No.** 244

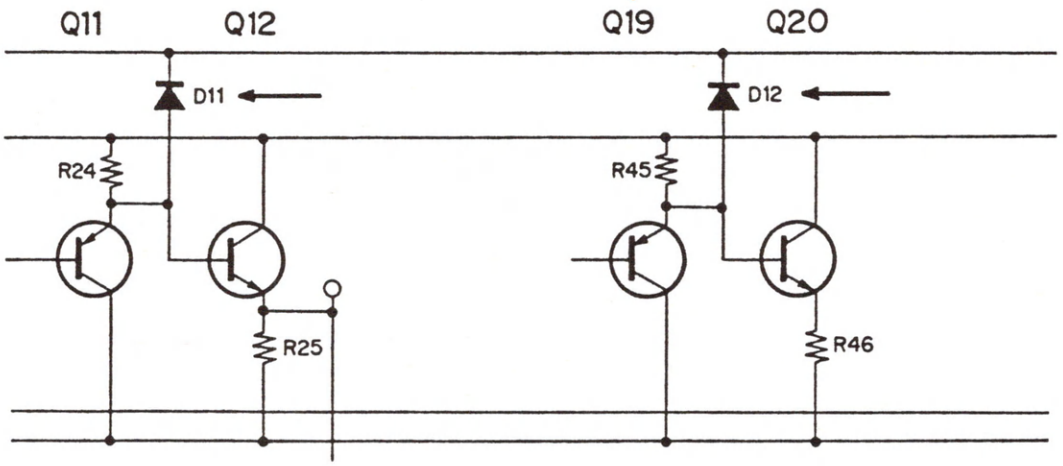
Model: SEG-1210

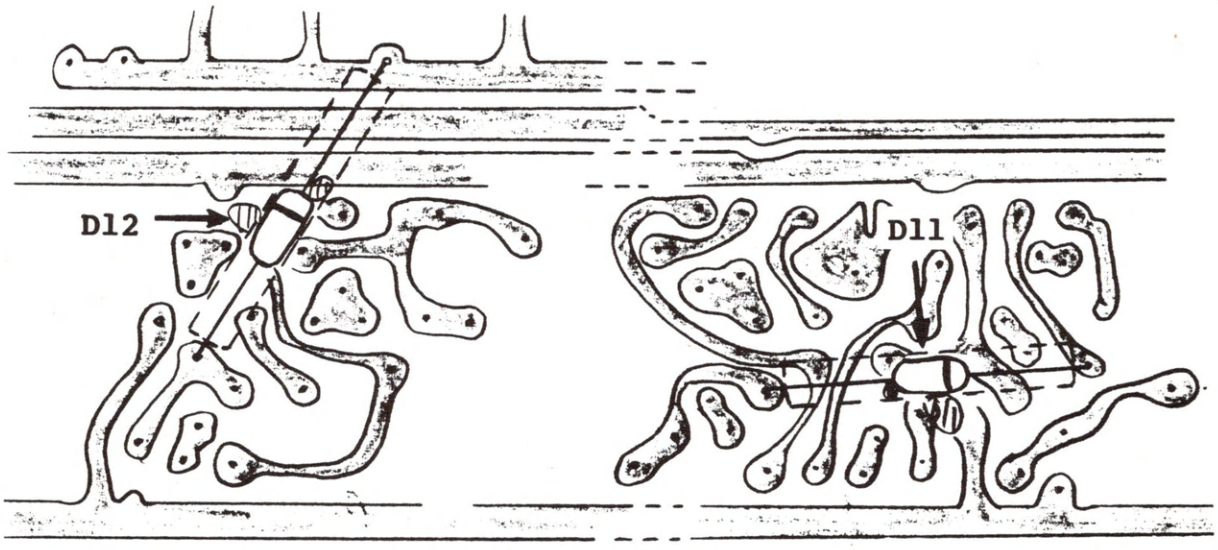
Subject:
WP-4 BOARD CIRCUIT CHANGES

The circuit of the WP-4 Board has been changed.

WP-4 BOARD

ADD: D11, D12 1S1555
8-719-815-55



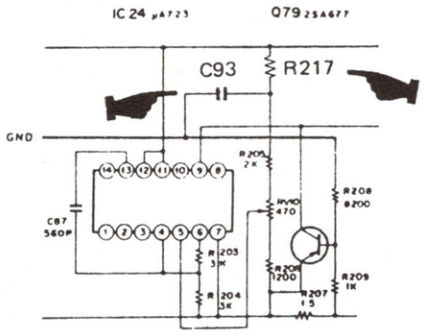


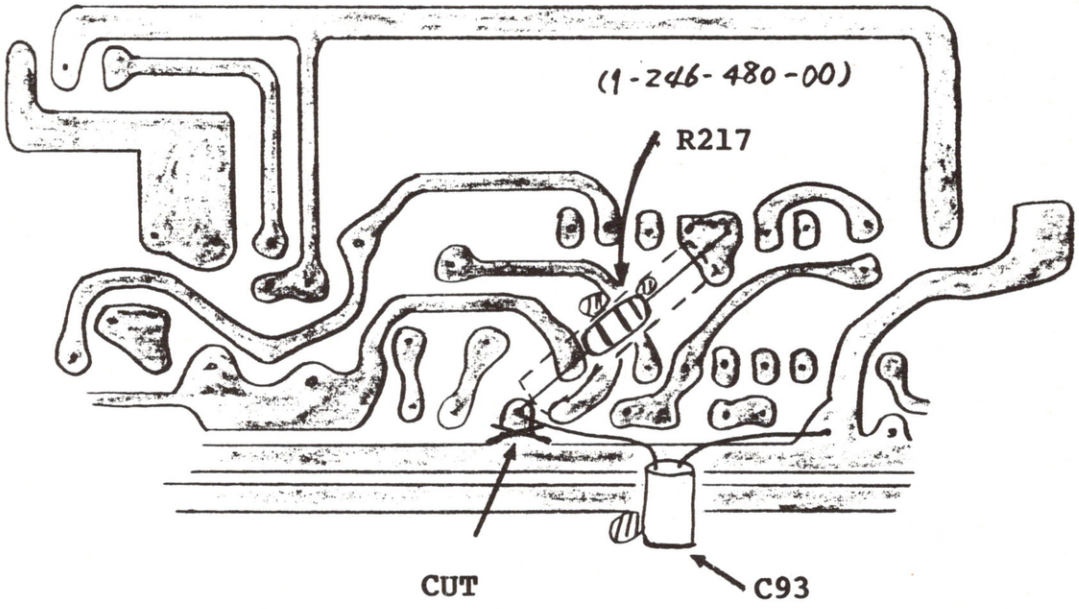
PERIPHERAL

Ref: VS-82-1098, VTRW-82-1141,
VS-82-1100, VTRW-82-1142

ADD: R217 2K ohms
1-246-480-00

C93 22µF/16V
1-124-285-00





Factory modified serial numbers:

10401 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 **No.** 245

Model: DXC-6000

CAMERA

Subject:
LOSS OF SC

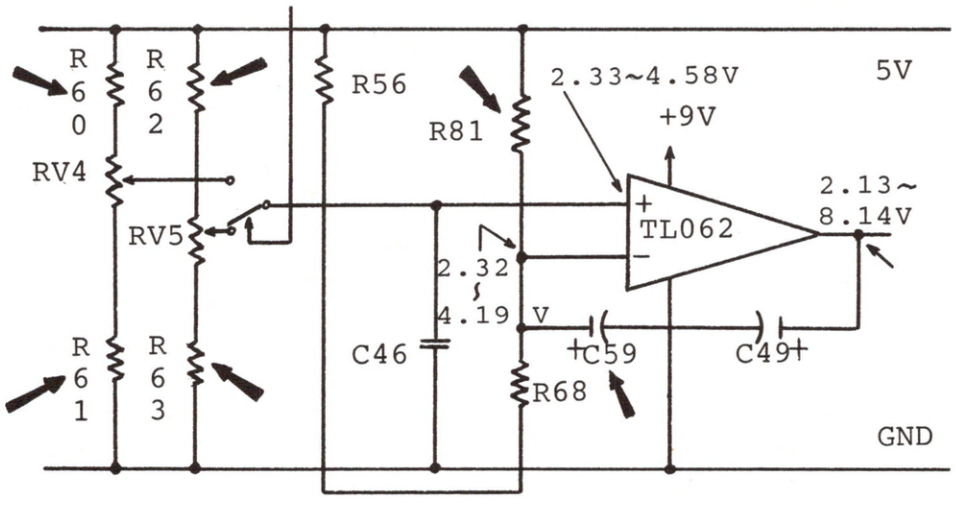
While the INT (EXT) SC PHASE VR is turned fully clockwise or counterclockwise, if the SC is lost, perform the following modification.

SG-40 Board

		(old)		(new)
CHANGE:	R60, R62	10K ohms	⟶	3300 ohms 1-214-569-00
	R61, R63	6800 ohms	⟶	20K ohms 1-214-588-00

ADD: R81 18K ohms
1-214-587-00
(attach on the foil side)

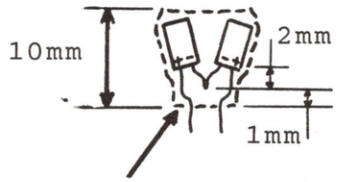
C59 0.1/35V, tantalum
1-131-341-00



When mounting C59:

1. Remove C49 from the SG-40 Board.

2. Cut the leads of C49 and C59 to the lengths indicated below. (Replace C49 if necessary.)



heat shrinkable tubing

3. Attach C49 to C59, as indicated above.

4. Mount C49 and C59 on the SG-40 Board, and cover with heat shrinkable tubing.

Factory modified serial numbers:

50971 and higher

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VIDEO PRODUCTS
TECHNICAL BULLETIN

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Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 **No.** 246

Model: DXC-1800

CAMERA

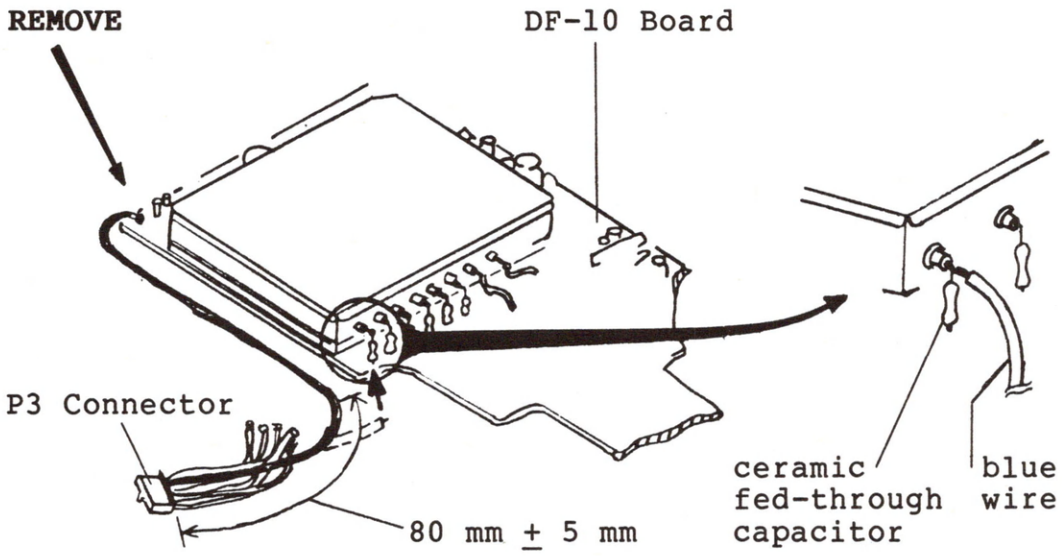
Subject:
BUZZING IN THE MIC OUT

If there is buzzing which covers the AUDIO MIC circuit's PRE BLK PULSE in the MIC OUT, perform the following modification.

Modification

1. Remove the blue wire in the P3 Connector from the DF-10 Board.

2. Cut the blue wire to a length of 80 mm ± 5 mm.



3. Solder the blue wire to the PRE BLK ceramic feed-through capacitor on the SG-35 Board.

Factory modified serial numbers:

10601 and higher

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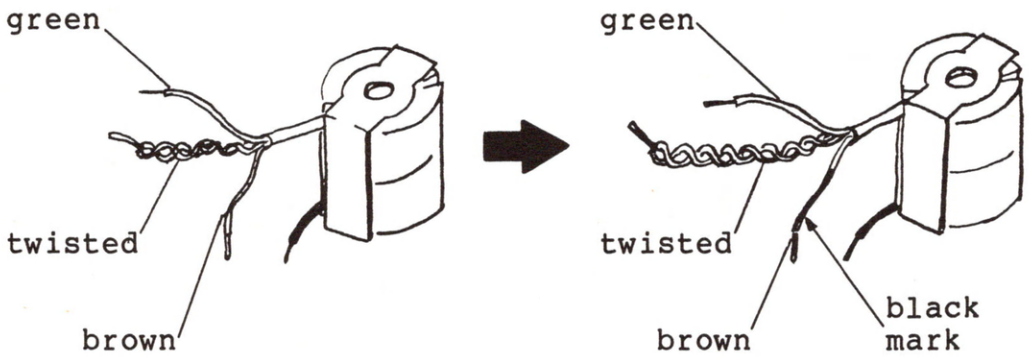
Date: Dec., 1982 **No.** 247

Model: DXC-1850

Subject:
ADDITION OF A MARKING ON THE DRIVE TRANSFORMER WIRING

A black mark has been added to the (brown) wire on the secondary side of the Drive Transformer on the PA-14 Board.

(old) (new)



Transformer, Drive
1-437-105-00

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VIDEO PRODUCTS TECHNICAL BULLETIN

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Dec., 1982 **No.** 248

Model: Canon Lens

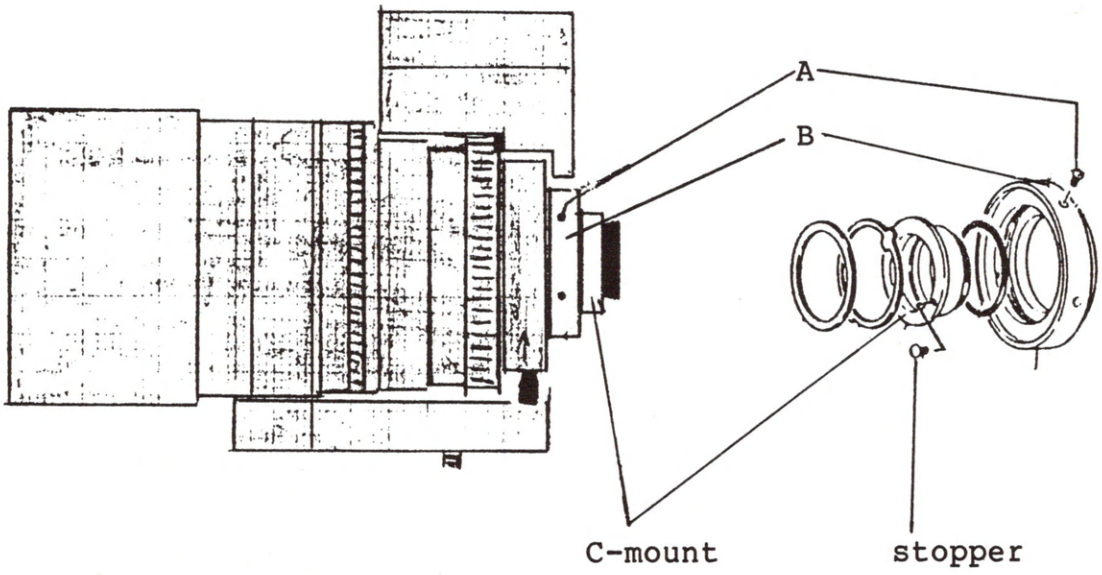
CAMERA

Subject:
ALIGNMENT PROCEDURE FOR CANON LENS

The Alignment Procedure of the Canon Lens Position is as follows:

Procedure

1. Loosen the set screw (A) in the C-mount lock ring (B).
2. Loosen the C-mount lock ring (B), and then retighten it until the ring is finger-tight.
3. Attach the lens to the camera.
4. Loosen the C-mount lock ring (B) again.
5. Align the lens with the camera body by turning the lens housing.
6. Retighten the C-mount lock ring, and then retighten set screw (A).



Ref: Canon

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Date: Dec., 1982 **No.** 249

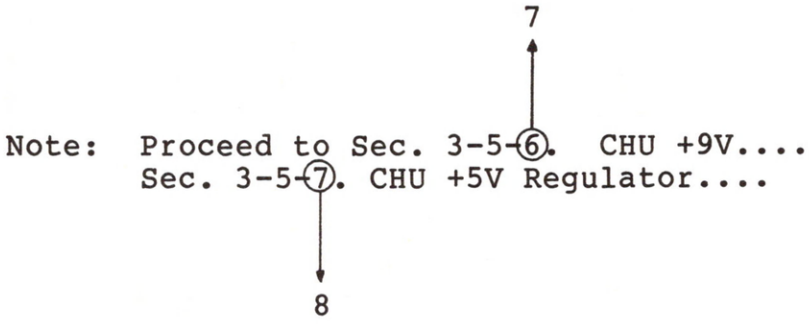
Model: DXC-1850

CAMERA

Subject:
SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual, Supplement 1, Section 3-5-6. +12V Regulator Adjustment (page 3-4).

3-5-6. +12V Regulator Adjustment



Ref: VS-82-1018

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Jan., 1983 **No.** 250

Model: VO-4800

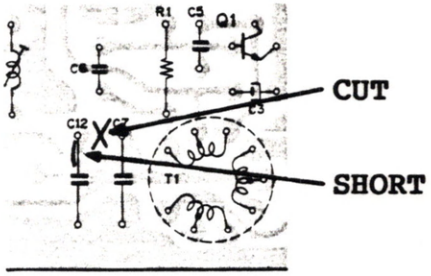
Subject: CHANGE OF THE BO-2 BOARD BIAS OSC FREQ CIRCUIT

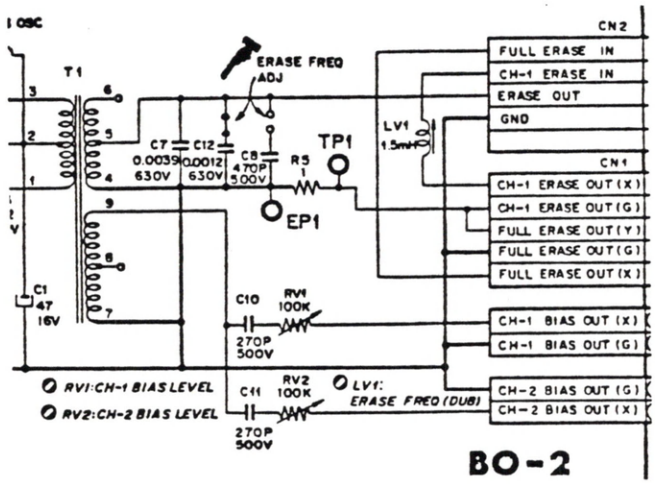
The Bias Oscillator Frequency Circuit has been changed.

BO-2 Board

1. Pattern between C7 and C12 is open.
2. Solder bridge at C12.
3. Value of C12 changed to 0.001µF (1-129-702-00).

NOTE: The Adjustment Procedure has not changed.





The old and new boards are compatible with all serial numbers.

Factory modified serial numbers:

21301 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 251R

Model: SLO-323, SLO-323MD, SLO-325, SLO-383

Subject: CHANGE OF THE RELAY

The Relay (Part No. 1-515-323-00) has been changed, as indicated in the following table.

Model and Serial Number	New Part No.	Board & Reference No.
SLO-323.....23701 and higher SLO-323MD.....11001 and higher	1-515-475-00	AU-22A Board: RY2
	1-515-476-00	AU-22A Board: RY1,3 & 4
SLO-325.....10586 and higher	1-515-475-00	AU-33 Board: RY1,2,3 & 4
SLO-383.....13251 and higher	1-515-475-00	AU-22 Board: RY2
	1-515-476-00	AU-22 Board: RY1,3 & 4 SY-65 Board: RY1

The new part is compatible with all models and serial numbers. However, the new parts have polarization characterisitics. Therefore, note the part number when mounting the new parts on the board.

Ref: VTRW-82-1152

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 251R

Model: SLO-323, SLO-323MD, SLO-325, SLO-383

Subject: CHANGE OF THE RELAY

The Relay (Part No. 1-515-323-00) has been changed, as indicated in the following table.

Model and Serial Number	New Part No.	Board & Reference No.
SLO-323.....23701 and higher SLO-323MD.....11001 and higher	1-515-475-00	AU-22A Board: RY2
	1-515-476-00	AU-22A Board: RY1,3 & 4
SLO-325.....10586 and higher	1-515-475-00	AU-33 Board: RY1,2,3 & 4
SLO-383.....13251 and higher	1-515-475-00	AU-22 Board: RY2
	1-515-476-00	AU-22 Board: RY1,3 & 4 SY-65 Board: RY1

The new part is compatible with all models and serial numbers. However, the new parts have polarization characterisitics. Therefore, note the part number when mounting the new parts on the board.

Ref: VTRW-82-1152

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
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Sony Drive, Park Ridge, N.J. 07656

Date: Jan., 1983 **No.** 252

Model: VO-4800

Subject: CHANGE OF THE MOTOR DRIVER TRANSISTOR

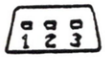
The MOTOR DRIVER TRANSISTORS on the SV-16 Board have been changed.

SV-16 Board

	(old)		(new)*
Q13, Q18	2SC1475	⟶	2SD1160-2 8-729-200-45 2SD1160-3 8-729-200-46 2SD1160-4 8-729-200-47

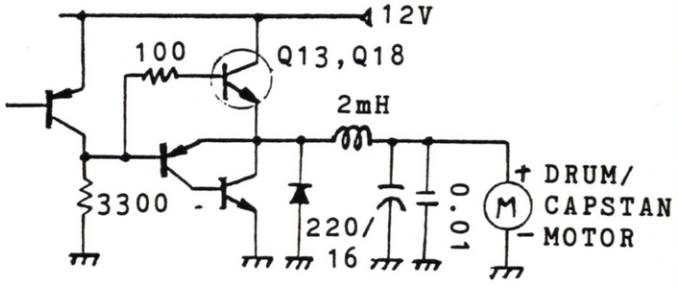


1 2 3



* Any of the three transistors may be used.

1. Base
2. Collector
3. Emitter



Factory modified serial numbers:

21801 and higher

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VIDEO PRODUCTS TECHNICAL BULLETIN

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Sony Drive, Park Ridge, N.J. 07656

Date: Jan., 1983 **No.** 253

Model: System Console

Subject: ADDITION OF PART NUMBERS

The following parts are available as replacement parts for System Consoles, Models:

BLP-501	RMM-501	SU-501
BLP-502	RMM-502	SU-502
BLP-503	RMM-503	SU-511
BLP-504	RMM-504	SU-512
BLP-505	RMM-505	SU-513
BLP-506	RMM-506	SU-514
BLP-507		SU-515

ACCSSY

Ref: VTRW-82-1170

TYPE	NAME	PART NUMBER
	Hexagon socket head cap screw 6x10	7-683-452-04
	Hexagon socket head cap screw 6x10	2-364-256-01
	Hexagon socket head cap screw 6x15	2-364-256-11
	RK Screw 5x14	7-682-377-04
	PTPWH 3x10	7-687-247-11
	PTPWH 4x10	7-687-264-21
	WASHER	2-297-913-00
	B 4x6	7-686-634-09
	B 5x10	7-682-375-04
	Bracket ass'y, Rack mount	A-6273-077-A
	Stopper, Rail	2-364-239-00

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: March, 1983 **No.** 254R

Model: U-matic 5000 Series

Subject:

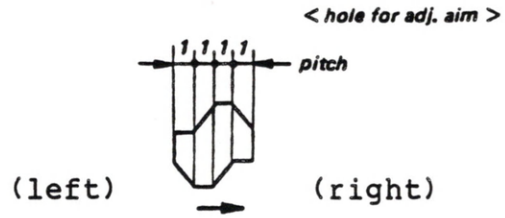
SERVICE MANUAL SUPPLEMENT

Make the following addition to your Service Manual.

5-8-3. T-Idler Solenoid Position Adjustment

Adjustment Procedure:

(3) Attach the Solenoid so that its edge is at the second pitch.



In addition, after replacing the T Joint, turn the Solenoid fully to the right. When there is a gap between the FF Idler and the T Reel Table, perform the T-Idler Solenoid Position Adjustment.

Affected models and serial numbers:

VO-5600.....17450 and lower
VO-5630.....10200 and lower
VO-5800.....11540 and lower
VO-5850.....15040 and lower
VP-5000.....19350 and lower
VP-5030.....10300 and lower

SONY

VIDEO PRODUCTS
TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS
PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Feb., 1983 **No.** 254

Model: U-matic 5000 Series

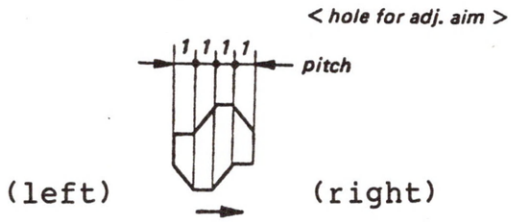
Subject:
SERVICE MANUAL SUPPLEMENT

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Affected models and serial numbers:

VO-5600.....17450 and lower
VO-5800.....11540 and lower
VO-5850.....15040 and lower
VO-5630.....10200 and lower
VP-5000.....10350 and lower

SONY

VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Oct., 1983 **No.** 255R

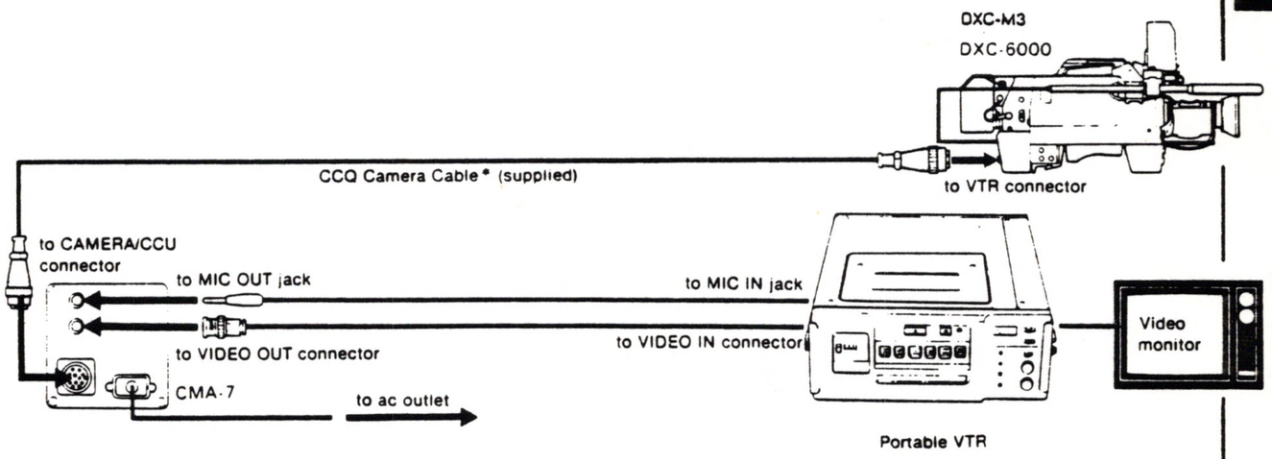
Model: DXC-6000, DXC-M3

CAMERA

Subject:

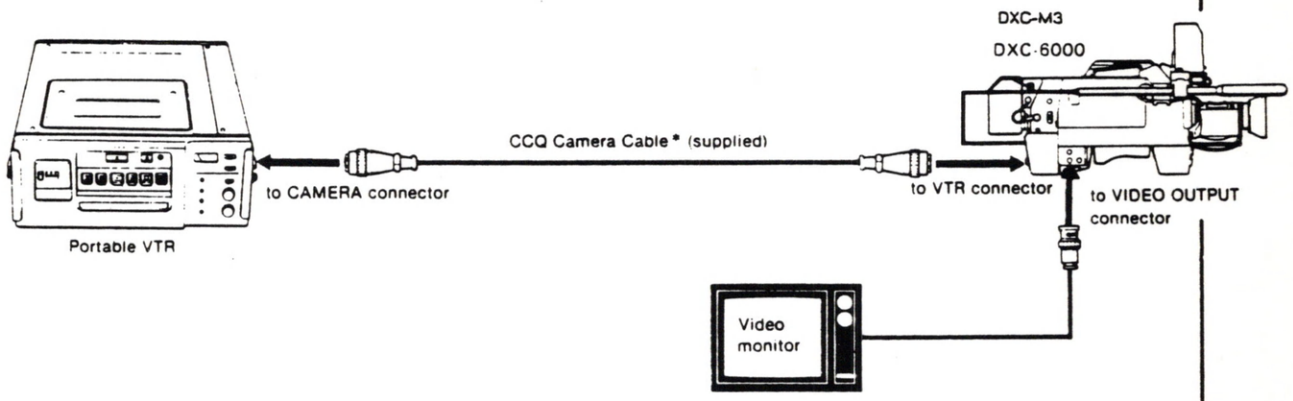
BUZZ WITH A PORTABLE VTR

1. If the DXC-6000 or DXC-M3 is connected to a portable VTR (VO-4800) as indicated below, a buzz will occur.



In order to eliminate the buzz, connect the DXC-6000 or DXC-M3 directly to the portable VTR as indicated below (and on page 16 (DXC-6000) or page 21 (DXC-M3) of the Operating Instructions).

CONNECTION WITH A PORTABLE VTR



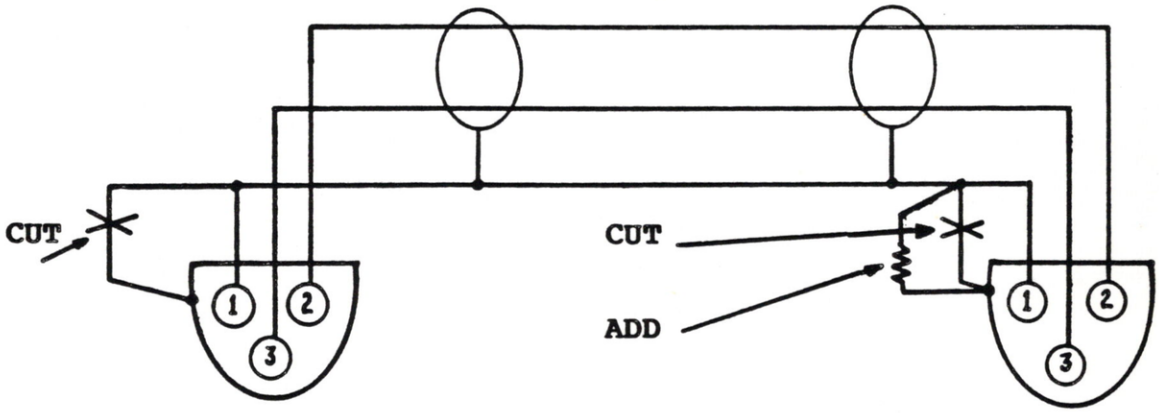
Ref: VTRW-82-1174, VTRW-83-1087

2. If a buzz occurs in the VTR when a microphone is connected to the DXC-6000 or the DXC-M3, perform the following modification.

Microphone Cable

1. Cut the wires between Pin 1 and the XLR connector cases, as indicated below.

2. ADD a 1K ohms resistor (1-246-783-00) between Pin 1 and the XLR connector case on the microphone side



(camera side) (mic side)

SONY

VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: March, 1983 **No.** 256R

Model: VO-5850

Subject:

DROP-OUT COMPENSATOR ADJUSTMENTS AND IMPROVEMENT OF THE D.O.C. SENSOR

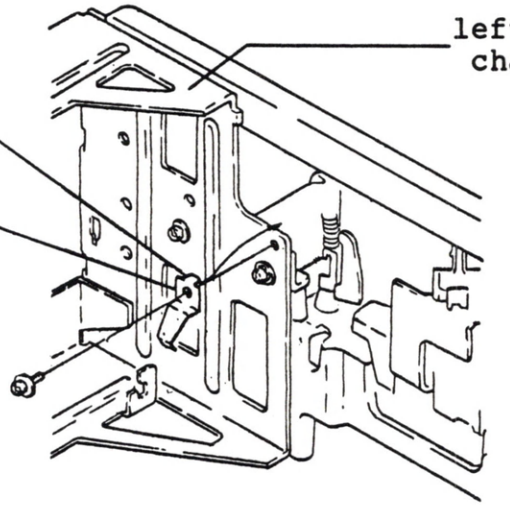
To improve the D.O.C., perform the following modification.

Modification *

DM-22 Board

		(old)		(new)
CHANGE:	R604	47K ohms	⟶	22K ohms
	R605	47K ohms	⟶	33K ohms
	R137	470 ohms	⟶	100 ohms
	RV22	470 ohms	⟶	220 ohms

NOTE: * For Serial numbers 12790 and lower, also perform the following modification.

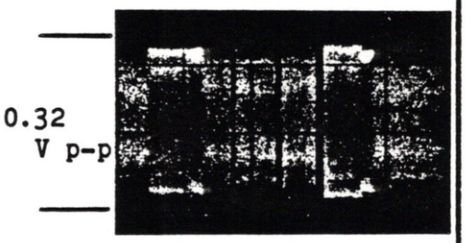
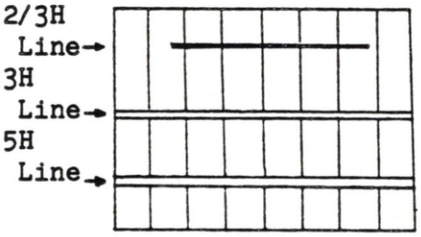
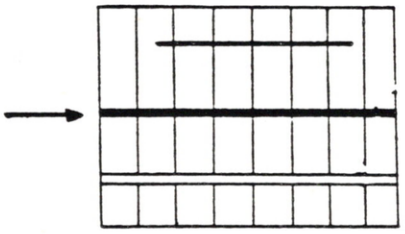


Part Number Change

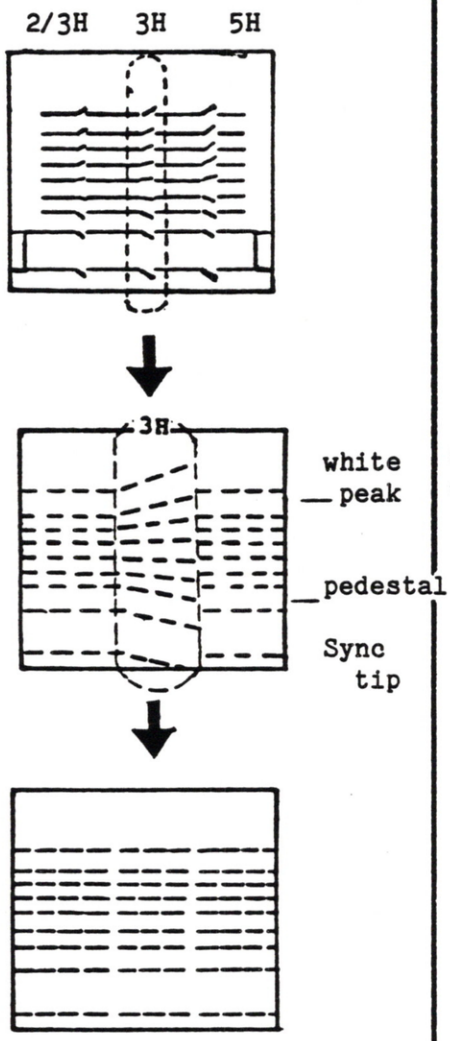
(old)		(new)
RR5-2SA Alignment Tape 8-960-015-02	⟶	8-960-015-03

Ref: VS-82-1120, VTRW-83-1001

11-1-8 Drop-out Compensator Sensitivity Level Adjustment (page 11-5)

machine condition	spec.	adjustment
*Play back the D.O.C. segment of the RR5-2SA Alignment Tape. *Measure the RF Level at TP31. (This is a reference: A V p-p.)	(Scope)	
*Adjust the RF Level to 0.32 V p-p.		*RV19/MP12
*Turn RV22 on the MP12 Board fully counter-clockwise.	(Monitor) 	
*Watching the monitor, adjust slowly clock-wise until the 3H Line is compensated for. (The white line disappears.)		*RV22/MP12
*Readjust the RF Level to the reference value (A V p-p).		*RV19/MP12

11-2-10 D.O.C. DC Balance and Level Adjustment (page 11-9)

machine condition	spec.	adjustment
*Turn the Power ON 10 minutes before beginning the Adjustment. *Set the COLOR/B/W switch to B/W. *Play back the D.O.C. segment of the RR5-2SA Alignment Tape. *Observe the waveform at TP10 on the DM22 Board. *Adjust the 3H Line portion of the waveform. (If each step cannot be adjusted to the correct form, adjust the waveform so that the white peak and pedestal are correct.)	(Scope)  	*RV22/DM22 *RV61/DM22

SONY

VIDEO PRODUCTS
TECHNICAL BULLETIN

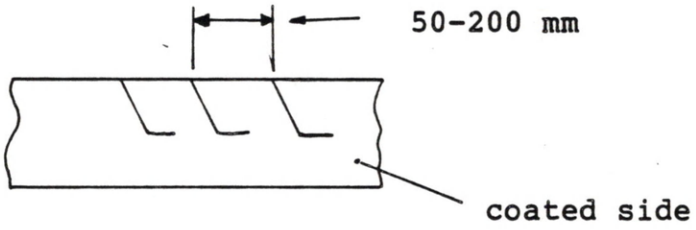
SONY COMMUNICATIONS
PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 No. 257R

Model: VO-5600, VO-5630,
VP-5000, VP-5030

Subject: TAPE DAMAGE

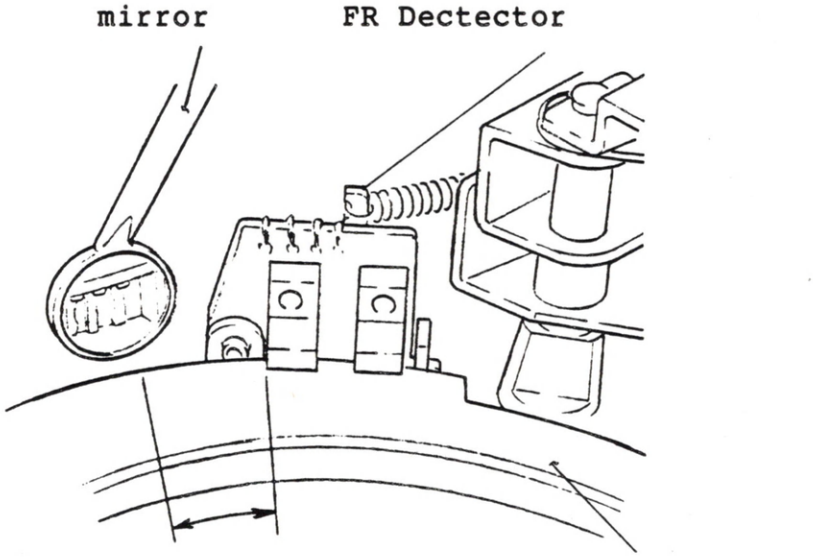
If Tape damage similiar to that shown below occurs, perform the following precedure.



1. Threading Ring Gear Check

1-1. Put the unit into the EJECT mode.

1-2. Check the Threading Ring Gear teeth with a mirror to determine if any are missing.



1-3. If any of the gear teeth are missing, proceed to Step 2. After completing Step 2, proceed as indicated below. If none of the teeth are missing, proceed as indicated below.

For the following models and serial numbers, perform Step 3 and Step 4.

VO-5600.....18450 and earlier**
VO-5630.....10500 and earlier**
VP-5000.....19350 and earlier**
VP-5030.....10300 and earlier**

NOTE: ** It is not necessary to perform Step 3-1-5 for the following models and serial numbers.

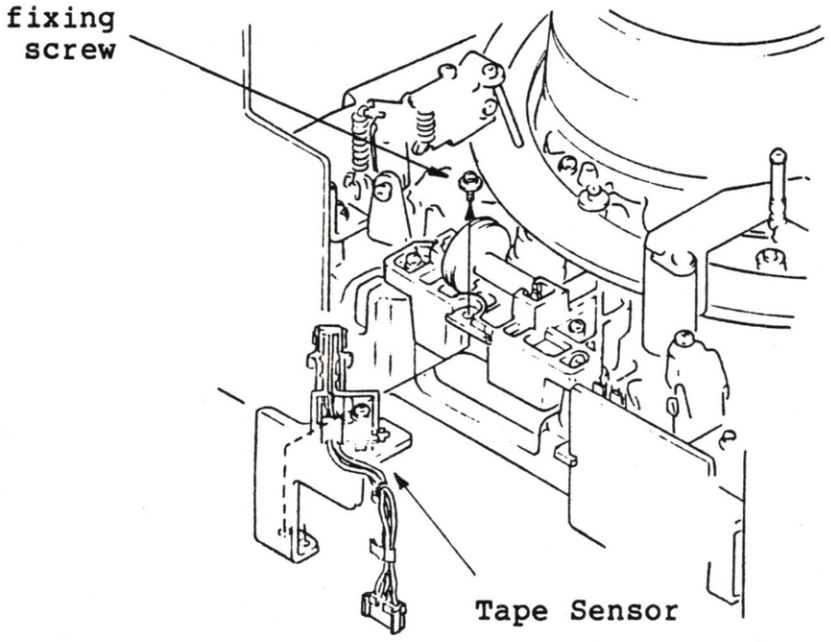
VO-5600.....14151 and higher
VO-5630.....10201 and higher
VP-5000.....15351 and higher
VP-5030.....10301 and higher

2. Gear Box Replacement Procedure

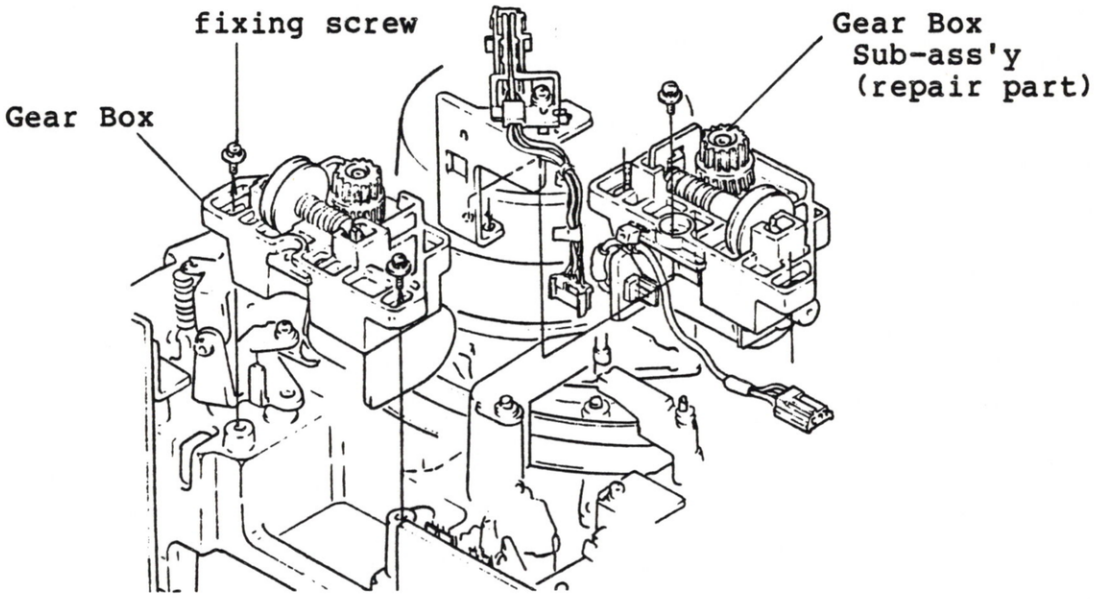
Gear Box Sub-ass'y
A-0327-005-A

2-1. Put the unit into the EJECT mode.

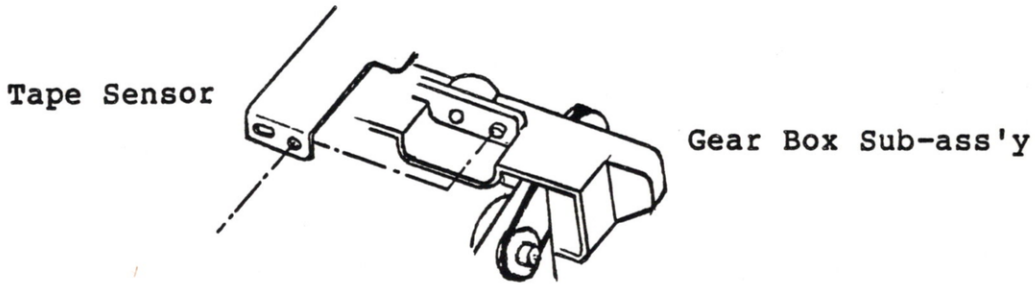
2-2. Remove the Tape Sensor.



2-3. Remove the Gear Box.



2-4. Align the Tape Sensor, as indicated below, and attach it to the Gear Box Sub-ass'y.



2-5. Attach the Gear Box Sub-ass'y, and connect the wiring.

NOTE: It may be easier to attach if the board on the left is removed first.

2-6. Gear Box Position Adjustment

[See Technical Bulletin No. 173]

3. DU-16 Board Replacement Procedure

S.K. Insulating Sheet
3-672-655-01

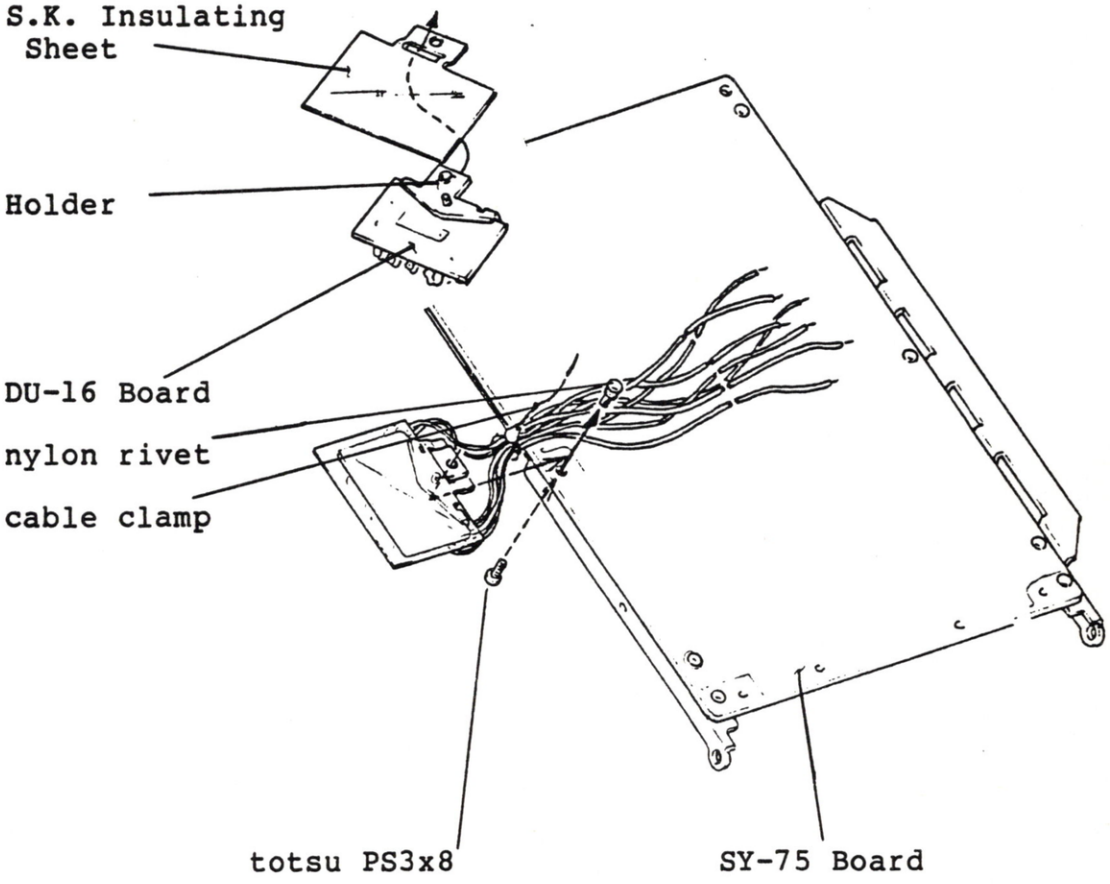
FR Detection Bracket
3-668-756-02

totsu PS3x8
7-686-448-01

DU-16 Mounted Circuit Board
A-6746-036-A
031

3-1. DU-16 Board Wiring

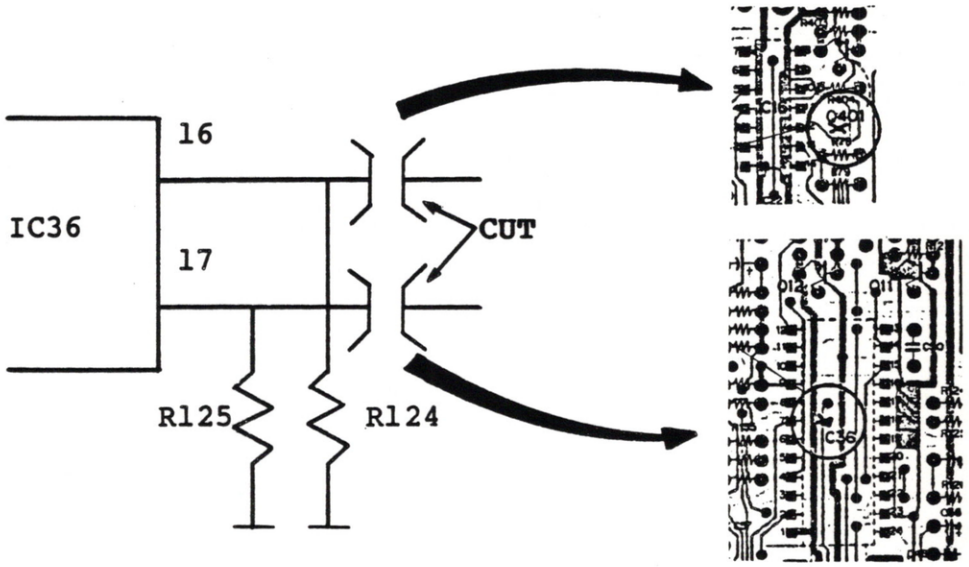
3-1-1. Remove the nylon rivet on the SY-75 Board.



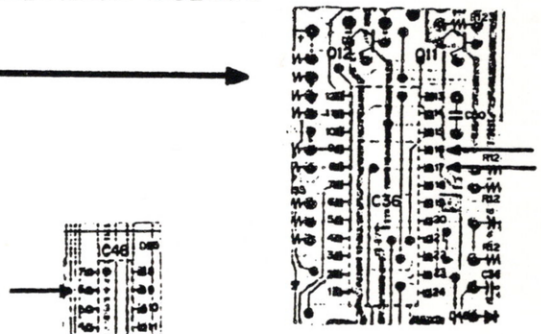
3-1-2. Insert the Holder of the DU-16 Board through the S.K. Insulating Sheet, and attach it to the SY-75 Board with the totsu PS 3x8.

3-1-3. Fasten the DU-16 Board wires with a cable clamp.

3-1-4. Cut the pattern on the SY-75 Board at the two points indicated.

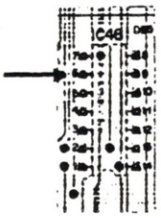


Attach the wires of the DU-16 Board to the SY-75 Board, as indicated below.

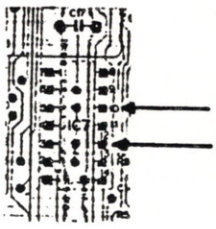


Yellow —— IC36 pin 16

Orange —— IC36 pin 17

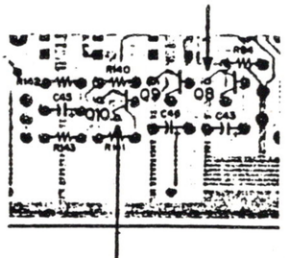


Blue —— IC46 pin 6



Brown —— IC7 pin 10

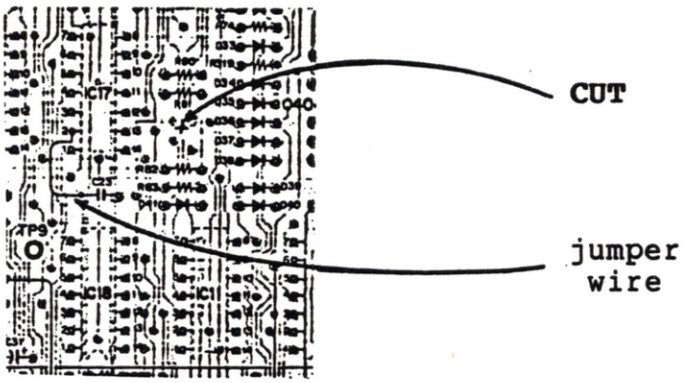
Purple —— IC7 pin 12



Red —— Collector of Q10

Black —— Emitter of Q8

3-1-5. Cut the pattern between IC11 pin 4 and IC17 pin 2, and attach a jumper wire between IC17 pin 2 and GND.

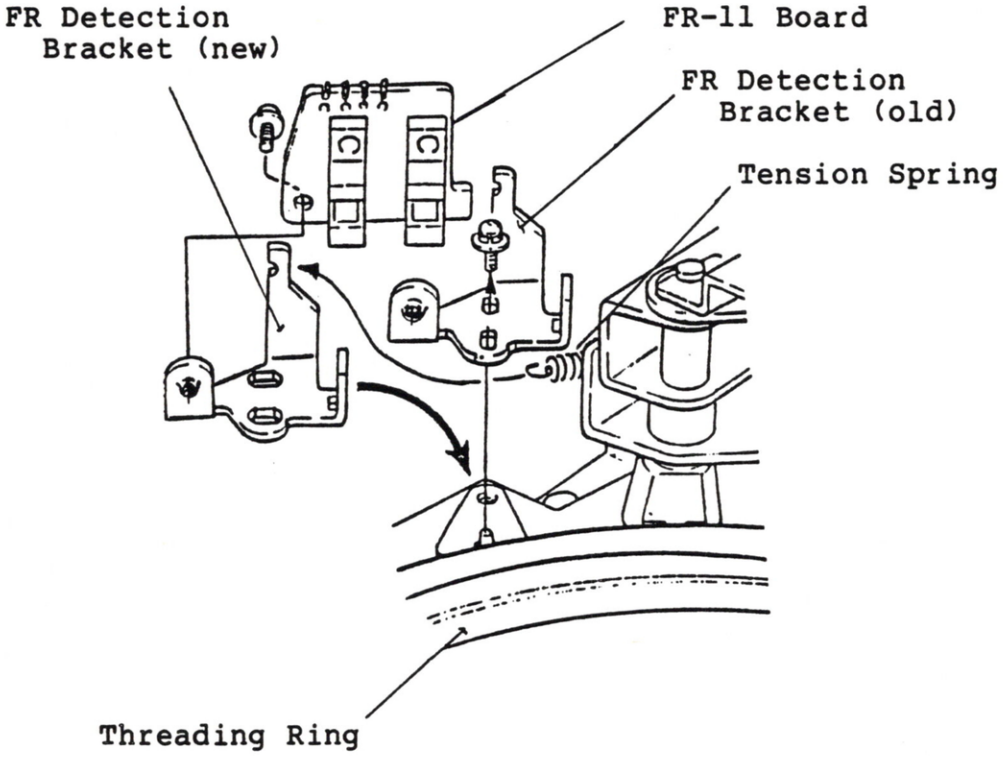


3-2. FR Detection Bracket Replacement Procedure

3-2-1. Disconnect the Cassette-up Compartment's connector, and remove the Compartment.

3-2-2. Without inserting a cassette, put the unit into the PLAY mode. While the Threading Ring is between STOP and PLAY, turn the POWER Switch OFF.

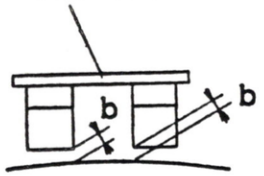
3-2-3. Remove the Pinch Lever's Tension Spring.



3-2-4. Replace the FR Detection Bracket.

3-2-5. Attach the FR Detection Bracket in the middle of the holes so that "b" of the FR Detector is within the specifications.

FR Detector



Spec:

1.0mm≤ b ≤1.5mm

Threading Ring

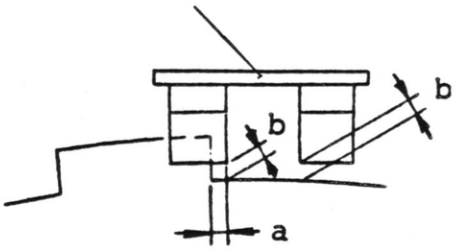
3-2-6. Reattach the Pinch Lever's Tension Spring.

3-3. FR Detector Position Adjustment

3-3-1. Without inserting a cassette, put the unit into the PLAY mode. Check to insure that threading has been completed.

3-3-2. Adjust the FR Detector so that "a" and "b" are within the specifications.

FR Detector



Spec:

0.0mm≤ a ≤1.0mm

1.0mm≤ b ≤1.5mm

Threading Ring

3-3-3. After the unit has been put into STOP and then back into PLAY, check the specifications again.

3-4. Pinch Roller Self-Alignment Adjustment

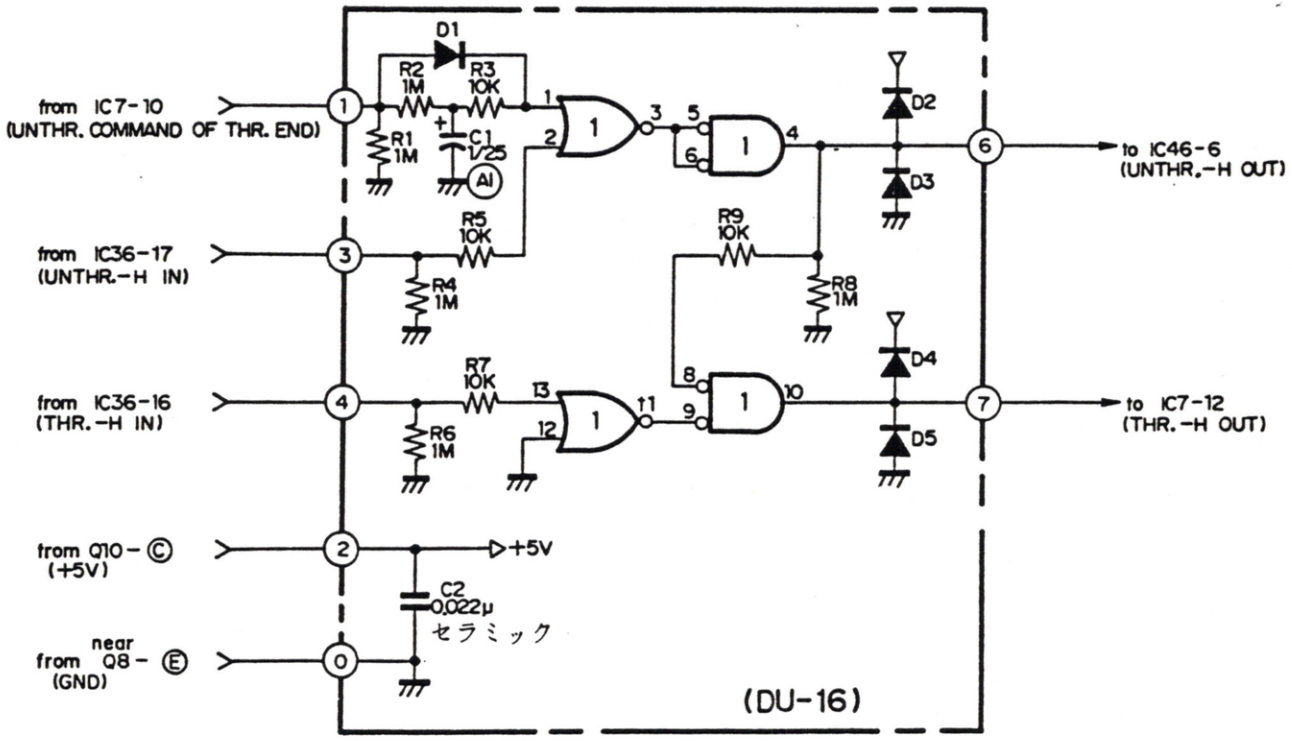
[See Section 5-3-3, page 5-6 (S/M)]

NOTE: Steps 3-3 and 3-4 affect each other; therefore, be certain that they are both within the specifications.

3-5. T Tape Sensor Position Adjustment

[See Section 5-5, page 5-11 (S/M)]

DU-61 Board Circuit



4. Tape Jam Check (For ALL Models)

4-1. Pinch Roller Slantness Adjustment
[See Section 7-6-2, page 7-4 (S/M)]

4-2. Pinch Roller Pre-set Adjustment
[See Section 5-4-2, page 5-9 (S/M)]

4-3. FWD Mode Tape Path Adjustment
[See Section 7-4, page 7-3 (S/M)]

4-4. REV Mode Tape Path Adjustment
[See Section 7-5, page 7-3 (S/M)]

4-5. Tape Wrinkle LRemove Adjustment
[See Section 7-6-1, page 7-4 (S/M)]

4-6. Pinch Roller Self-Alignment Adjustment
[See Section 5-3-3, page 5-6 (S/M)]

4-7. FR Detector Position Adjustment
[See Step 3-3/4-3 above]

4-8. SYSCON Operation Check

4-8-1. Put the unit into the EJECT mode. After unthreading is complete, turn the power OFF.

4-8-2. Attach the Cassette-up Compartment, and insert the connector.

4-8-3. Insert a cassette, and press the PLAY button. Confirm that the unit is in the PLAY mode.

4-8-4. Press the EJECT button and confirm that the unit is in the EJECT mode.

4-8-5. Insert a cassette, and put the unit into the PLAY mode. After threading is completed, confirm the following operations.

a. Press the PLAY button and the STOP button simultaneously.



b. Release the STOP button at the instant unthreading begins.



c. Approximately 0.5 sec. after beginning to unthread, the unit goes into the PLAY mode again.

SONY

VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Feb., 1983 **No.** 258

Model: AVC-1400

CAMERA

Subject:
CHANGE OF THE PU CHASSIS

The PU Chassis has been changed, and the Bushing has been replaced with a Stopper.

(old)		(new)
Chassis, PU 3-637-611-05	→	3-637-611-21
Bushing 3-005-073-01	→	Stopper 2-045-063-01

The new parts are compatible with all serial numbers. However, the new parts must be considered as a set. Therefore, when replacing one of the old parts with a new part, the other part must also be replaced with a new part.

Factory modified serial numbers:

28901 and higher

Ref: VTRW-83-1005

SONY

VIDEO PRODUCTS
TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS
PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: Feb., 1982 **No.** 259

Model: U-matic 5000 Series

Subject:

CASSETTE COMPARTMENT JAM

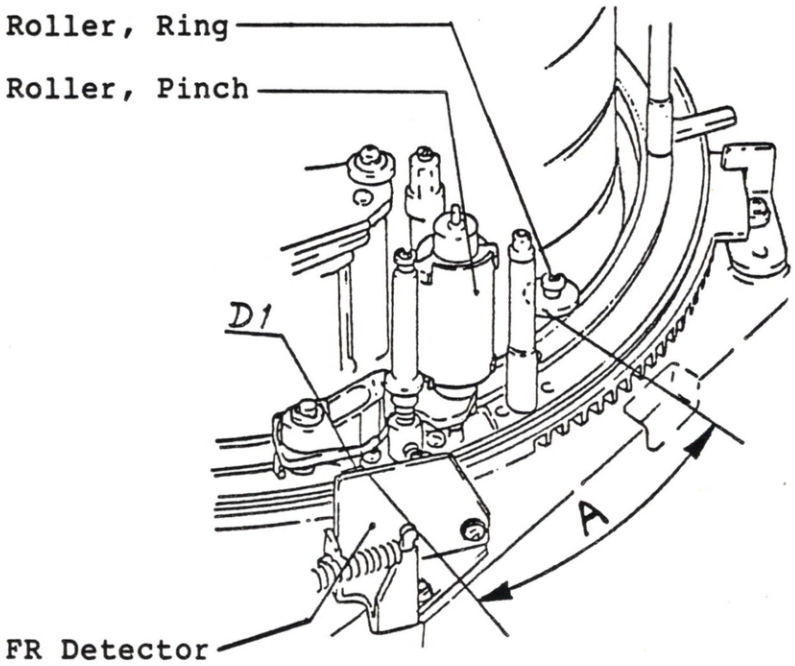
After inserting a cassette*, if the Cassette Compartment will only go part of the way down and it is impossible to perform the T Drawer Arm Eject Position Adjustment, then perform the following modification.

NOTE: * Especially when a KCA tape is used after a KCS tape.

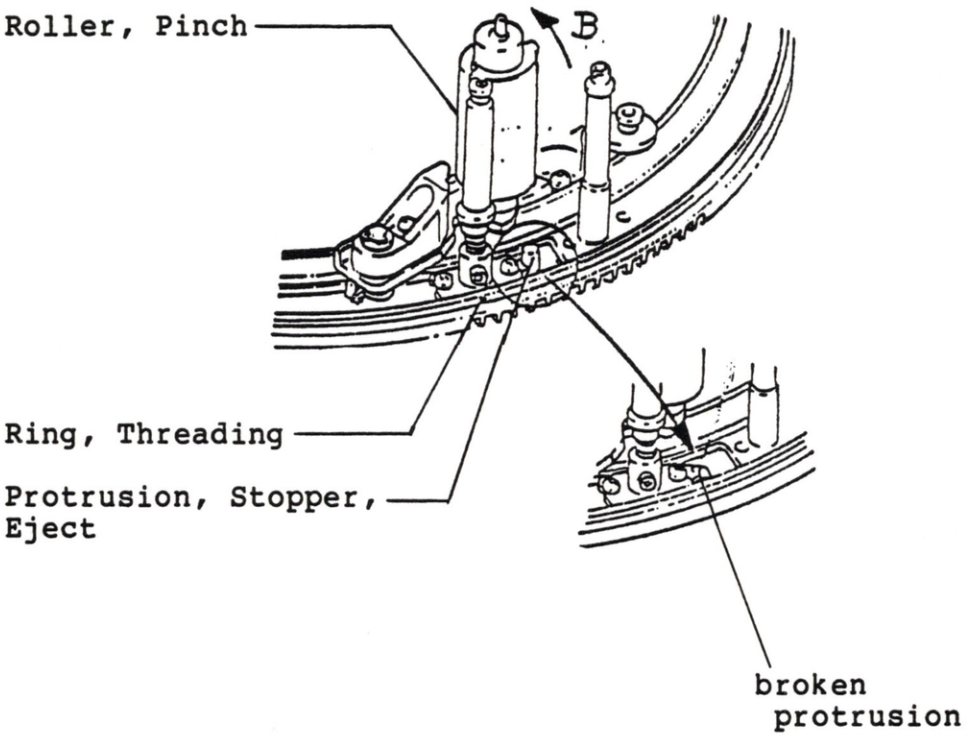
1. Trouble shooting

1-1. Disconnect the Connector on the CC-9 Board.

1-2. Without inserting a tape, turn the power ON and put the unit into the PLAY mode. When the Pinch Roller is within range "A", turn the power OFF.

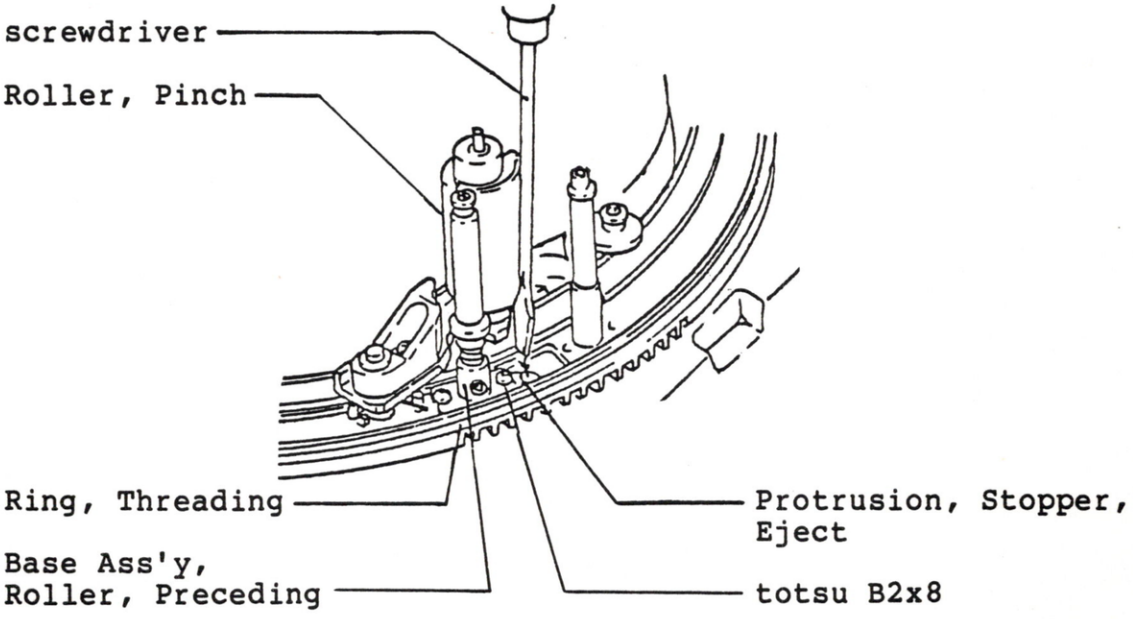


1-3. Press the Pinch Roller in the direction of arrow "B", and confirm that the Eject Stopper protrusion is broken.



2. Repair Procedure

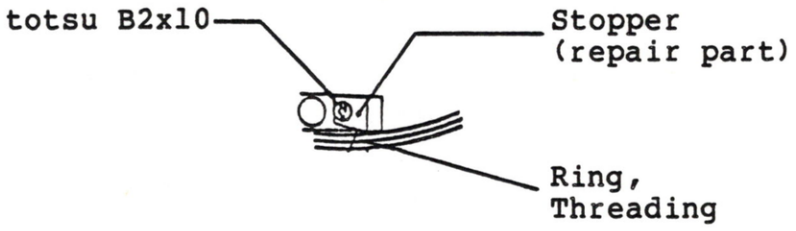
2-1. Remove the broken Eject Stopper protrusion from the base with a regular, slotted screwdriver.

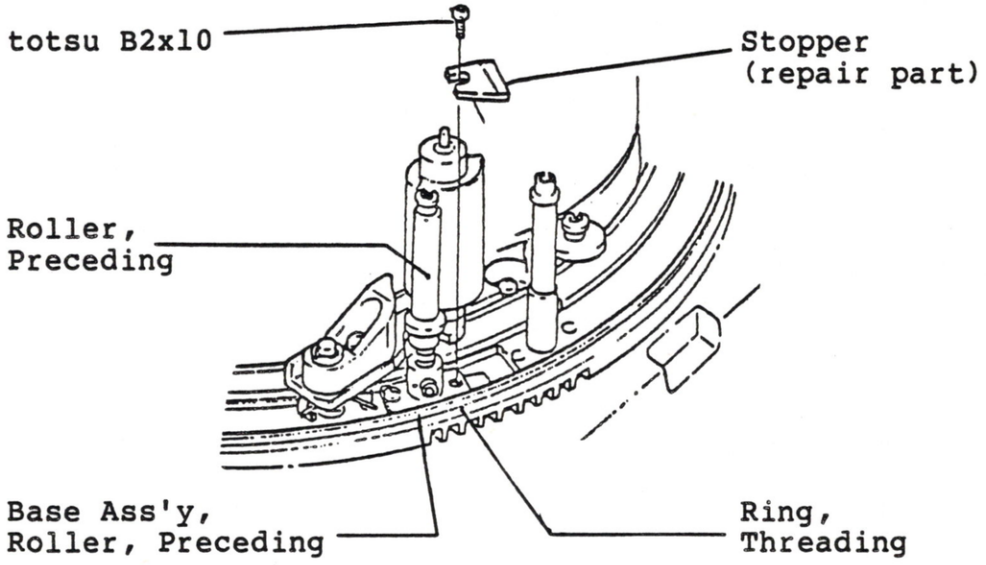


2-2. Remove the totsu B2x8 screw.

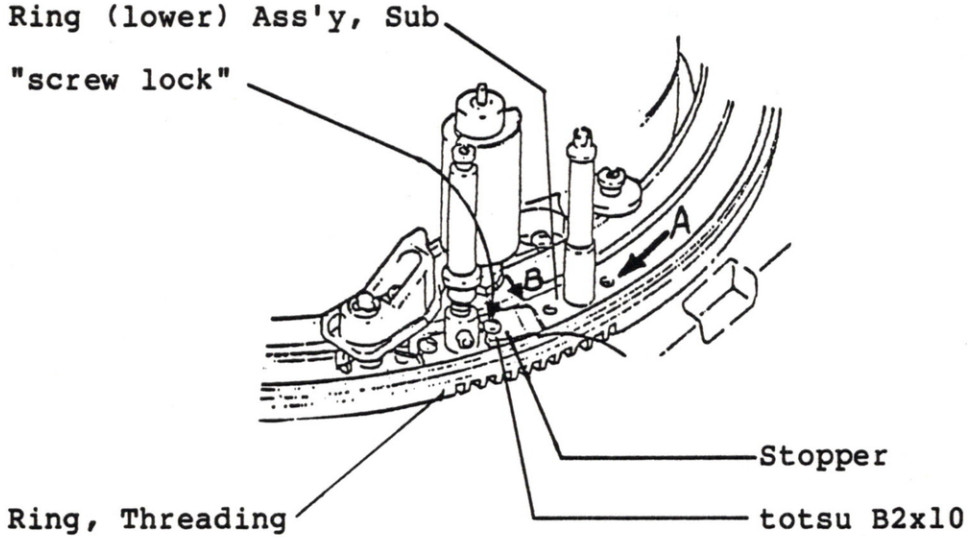
2-3. Temporarily fasten the Stopper (repair part), as indicated below.

Stopper Ass'y (Stopper and totsu B2x10)
A-6759-083-A





2-4. Move the Stopper as far as possible in the direction of arrow "A" by pushing Sub Ring (Lower) Ass'y in the direction of arrow "A". Also push the Stopper (repair part) as far as possible in the direction of arrow "B" until it touches the Threading Ring.



3. T Drawer Arm Eject Position Adjustment

(See Service Manual, Section 5-2-1)

NOTE:

After completing the modification,

1. Turn the power ON, and put the unit into the Eject mode.
2. After the unthreading is completed, reconnect the Connector of the CC-9 Board.

Factory modified models and serial numbers:

VO-5600.....14651 and higher
VO-5630.....10201 and higher
VO-5800.....10441 and higher
VO-5850.....13891 and higher
VP-5000.....15351 and higher
VP-5030.....10001 and higher

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VIDEO PRODUCTS TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: March, 1983 **No.** 260

Model: VO-4800

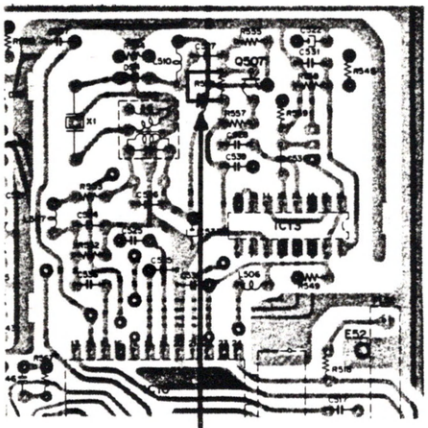
Subject: ADDITION OF A CAPACITOR TO THE REF OSC FREQ CIRCUIT

When the X1 (3.579545MHz crystal) is replaced, perform the following modifications.

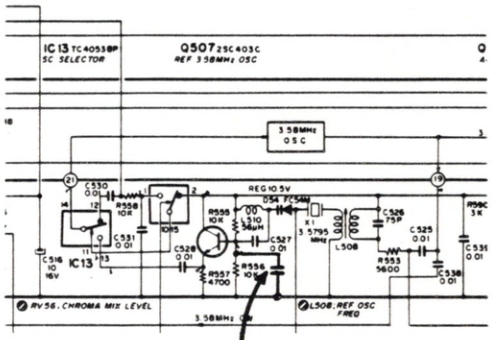
Modification

VO-2 Board

ADD: C568 3.9pF
1-107-045-00



ADD (on the foil side)



ADD

NOTE: After completing the modification, perform the Reference Oscillator Frequency Adjustment (Section 11-2-1).

Factory modified serial numbers:

21301 and higher

Ref: VS-83-4001 (1002)

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SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: March, 1983 **No.** 261

Model: DXC-1800

CAMERA

Subject: VERTICAL STRIPES

When a DXC-1800 is used with a monitor which is equipped with a comb filter, if Vertical Stripes appear on the screen, perform the following modifications.

Modification

1. Close the lens.
2. Minimize the Vertical Stripes by adjusting RV-1, LV-1 and LV-2 on the CR-11 Board.

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SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 262

Model: VO-5600, VO-5630

Subject:

CHANGE OF THE AUDIO/CTL HEAD

The Audio/CTL Head has been changed.

(old)		(new)
Head, CTL (EPP150-5803) 8-829-358-00	⟶	Head, CTL (EPP150-5803B) 8-829-358-30

The new part is compatible with all models and serial numbers.

Factory modified models and serial numbers:

VO-5600.....21851 and higher
VO-5630.....10301 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 263

Model: SLO-325

Subject: SERVICE MANUAL CORRECTION

Make the following corrections in your Service Manual.

Page 14-14

501 A-6050-155-A HEAD DRUM ASS'Y, DSH-25A-R

↓

143

503 A-6760-092-A UPPER DRUM ASS'Y

↓

A-6709-331-A

505 A-6762-097-A VIDEO HEAD ASS'Y, DSR-25-R

↓

096

Page 14-38

H3 A-6762-097-A VIDEO HEAD ASS'Y, DSR-25-R

↓

096

M1 A-6050-155-A DSH-25A-R "DRUM"

↓

143

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 264

Model: LDP-1000

Subject:

CHANGE OF THE CAV-2 REFERENCE DISC

The CAV-2 Reference Disc has been changed. (The old disc was recorded on only one side; however, the new disc has the same material recorded on both sides.)

(old)		(new)
8-847-002-00	⟶	8-847-002-01

In addition, when using the new disk to perform the Audio System Alignment, it is necessary to make the following changes in the "machine conditions for adjustment" in your Service Manual.

Page 9-1

9-1. LINEARITY ADJUSTMENT

*Repeat from frame number **38,550** to frame number **40,340**

9-2. CARRIER BALANCE ADJUSTMENT

*Repeat from frame number **41,240** to frame number **43,000**

Page 9-2

9-3. LINE OUT LEVEL ADJUSTMENT

*Repeat from frame number **40,345** to frame number **41,233**

The specification should also be changed to:

+0.8 ± 0.5 dBs

9-4. TIME BASE CORRECTION ADJUSTMENT

*Repeat from frame number **41,240** to frame number **43,000**

VDP

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 265

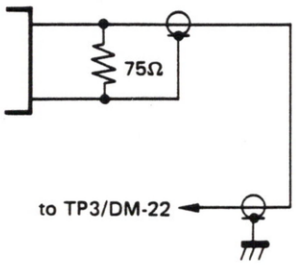
Model: VO-5850

Subject: CHANGE OF THE D.O.C. FREQUENCY RESPONSE ADJUSTMENT

Make the following change in your Service Manual.

Page 11-6

11-2-2. DROP-OUT COMPENSATOR FREQUENCY RESPONSE ADJUSTMENT

spec.	adjustment
	1.0 MHz Adj. LV37/DM-22 ~~adjacent to 1.0 MHz~~ ~~RV19/DM-22~~ **DELETE** 4.0 MHz Adj. LV42/DM-22

Affected serial numbers:

16211 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 266

Model: SLO-325, SLP-305

Subject:

CHANGE OF THE SYNC SEPARATOR CIRCUIT

When playing back a prerecorded tape on which the SYNC is not sharp OR when recording and then playing back a signal in which the SYNC is not sharp, if the picture loses its color, perform the following modification.

YC-6 Board

CHANGE:	(old)		(new)
C9	0.015µF	⟶	0.047µF 1-108-571-00

Factory modified models and serial numbers:

SLO-325.....10286 and higher
SLP-305.....10851 and higher

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 267

Model: VO-5850

Subject:

SYSCON ROM CHANGES

The following table indicates the current usage of the versions of the SYSCON ROM.

Serial Number	PROM	ROM1	ROM2	ROM3
10001- 10140	SET 1	**IC3** E1B (59)	**IC4** E2B (60)	**IC5** E3B (61)
10141- 10440	SET 2	**IC3** E1C (49)	**IC4** E2B (60)	**IC5** E3B (61)
10441- 13890	SET 3	**IC24** E1D (50)	**IC25** E2E (05)	**IC26** E3E (06)
13891- 17510	SET 4	**IC24** E1F (05)	**IC25** E2F (06)	**IC26** E3F (07)
17511-	SET 5	**IC24** E1G (16)	**IC25** E2G (17)	**IC26** E3G (18)

The version of the ROM is indicated by the suffix of the ROM name in the above table. For example,

E1B ⟶ Version B

E1F ⟶ Version F

The part numbers for the ROM's are as follows:

If the ROM's suffix is:	Part Number
B, C, or D	8-759-754-##
E	8-759-755-##
F	8-759-756-##
G	8-759-758-##

Ref: VS-82-1073, VS-82-1080, VTRW-83-1036

NOTE: (1) The numbers contained in the parenthesis in the above table indicate the suffixes (-##) for each of the part numbers. For example, the suffix for ROM1 of Set 1 would be -59. Therefore, the part number would be 8-759-754-59.

(2) Sets 1, 2 and 3 are interchangeable. However, when replacing only one of the ROM's, the new ROM must be from the same Set as the other ROM's. For example, if ROM3 of Set 3 is replaced, part number 8-759-755-06 must be used.

(3) In order to use Set 4 ("F" version) in units equipped with Set 1, 2 or 3, the FR Detection Bracket must be replaced. (See the procedure in Technical Bulletin No. 257)

(4) In order to use Set 5 ("G" version) in units equipped with Set 1, 2, 3 or 4, the FR Detection Bracket must be replaced (See the procedure in Technical Bulletin No. 257), and the following modification must be made on the AU-21 Board.

CHANGE: R99, R299
130K ohms ⟶ 56K ohms
1-246-804-39

R513 33K ohms ⟶ 51K ohms
1-246-864-39

C507 10uF/20V ⟶ 3.3uF/20V, tantalum
1-131-356-61

ADD: capacitors, 10μF/20V, tantalum
1-131-365-61

(1) between the base of Q4 and GND

(2) between the base of Q204 and GND

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 268

Model: SLO-325

Subject: SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual.

Page 14-14

No.	Part No.	Description
537	3-647-827-00	GUIDE, TAPE STEP

674

Ref: VTRW-82-1162

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Date: April, 1983 **No.** 269

Model: VO-5800

Subject: CHANGE OF THE YC-2 BOARD (DUB-Y LEVEL)

The YC-2 Board has been changed.

CHANGE: R35 910 ohms ⟶ 820 ohms
1-247-129-00

R36 1.1K ohms ⟶ 1.2K ohms
1-247-133-00

R39 910 ohms ⟶ 1.0K ohms
1-247-131-00

ADD: C220 56pF, mica
1-107-079-00
(parallel to R39)

Factory modified serial numbers:

13691 and higher

Ref: VTRW-83-1044

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Date: April, 1983 **No.** 270

Model: VO-5800

Subject: FLAGGING

When playing back a tape which has overlapping edits, if Flagging appears on the screen, perform the following modifications.

SV-47 Board

	(old)		(new)
R615	56K ohms	⟶	560K ohms
R616	20K ohms	⟶	240K ohms

NOTE: After completing the modification, the ϕ^2 Phase Adjustment must be performed.

Factory modified serial numbers:

13191 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 271

Model: SLO-325

Subject:

STATIC DURING PLAYBACK

When the unit is connected to a remote control unit, if there is static on the screen during playback, perform the following modification.

SV-49 Board

DELETE: C60 270pF

Factory modified serial numbers:

10586 and higher

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Sony Drive, Park Ridge, N.J. 07656

Date: April, 1983 **No.** 272

Model: VO-5850

Subject:

CHANGE OF THE REEL SERVO CIRCUIT

The Reel Servo Circuit on the MR-6 Board has been changed.

MR-6 Board

CHANGE:

	(old)		(new)
R45	100K ohms	⟶	330K ohms 1-246-047-00
R55	470K ohms	⟶	150K ohms 1-246-809-00

Factory modified serial numbers:

15541 and higher

NOTE: The Reverse Still Tension will also be improved.

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Date: April, 1983 **No.** 273

Model: VO-5800

Subject:

ROM CHANGE

The ROM's on the SY-68 Board have been changed.

	(old)		(new)
IC24 (ROM1)	8-759-754-53	⟶	8-759-758-22
IC25 (ROM2)	8-759-754-33	⟶	8-759-758-23
IC26 (ROM3)	8-759-754-34	⟶	8-759-758-24

The new part is compatible with all serial numbers.

Factory modified serial numbers:

13691 and higher

Ref: VTRW-83-1037

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Sony Drive, Park Ridge, N.J. 07656

Date: May, 1983 **No.** 274

Model: SLO-325, SLP-305

Subject: SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual, Vol. 2.

Page 8-7

8-3-2. VIDEO HEAD DIHEDRAL ADJUSTMENT (B-II)

[Check Procedure]

(original)		(correction)
Playback the monochrome segment of the alignment tape (KR5-1 or KR5-1B) (Jig Ref. No. J-12)....	⟶	Playback the monochrome segment of the alignment tape (KR5-1S) (Jig Ref. No. J-12)....

Make the following addition to your Service Manual, Vol. 2.

Page 2-3

2-5. FIXTURES REQUIRED FOR ALIGNMENT

Alignment Tape (KR5-1S)
8-969-995-71

Ref: VTRW-83-1039

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
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Sony Drive, Park Ridge, N.J. 07656

Date: July, 1983 **No.** 275R

Model: VO-5600, VP-5000

Subject: CHANGE OF THE APC CIRCUIT

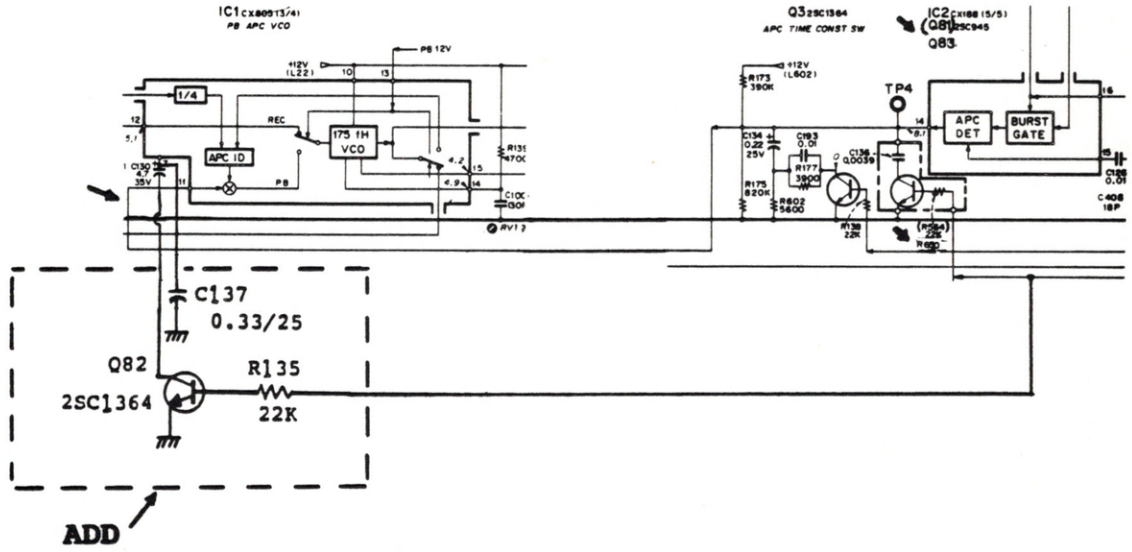
The APC Circuit on the VO-9 Board has been changed.

VO-9 Board

ADDED: C137 0.33/25

Q82 2SC1364

R135 22K ohms



Factory modified models and serial numbers:

VO-5600.....22351 and higher
VP-5000.....23851 and higher

Ref: VTRW-83-1048

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
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Sony Drive, Park Ridge, N.J. 07656

Date: May, 1983 **No.** 276

Model: VO-5600, VO-5630

Subject: AUDIO DUB WHILE CONNECTED TO AN RX-353

When an RX-353 is connected to the VTR's RX DATA jack, if the DUB key is pressed, AUDIO becomes a "signalless recording'. By removing the RX-353, AUDIO DUB will operate normally.

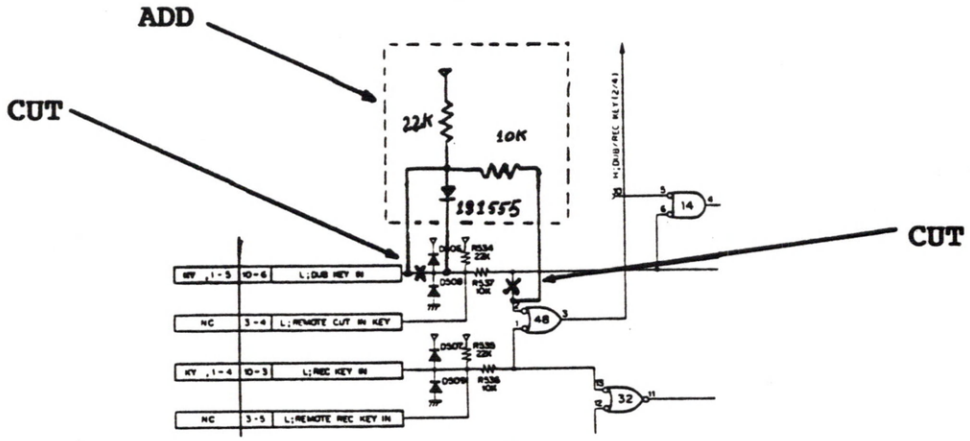
In order to perform AUDIO DUB with the RX-353 still connected to the VTR, perform the following modification.

SY-75 Board

ADD: resistor, 10K ohms

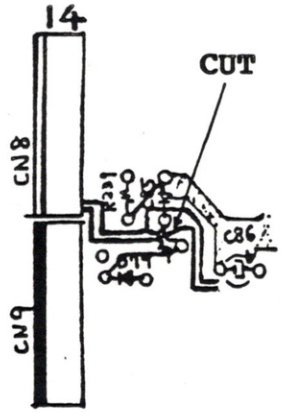
resistor, 22K ohms

transistor, 1S155

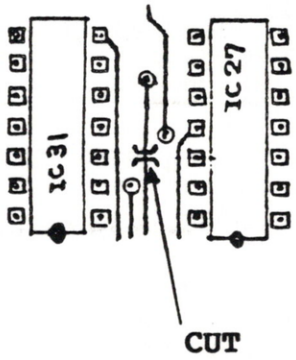


Pattern Cuts (Address):

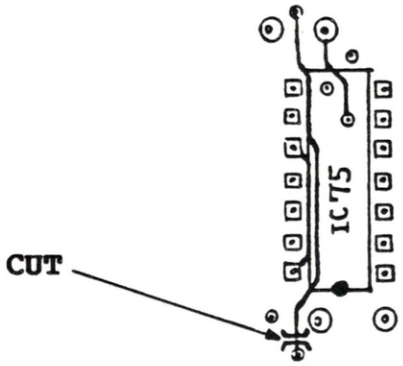
1. Component side : 15-A



2. Foil side : 7,6-F

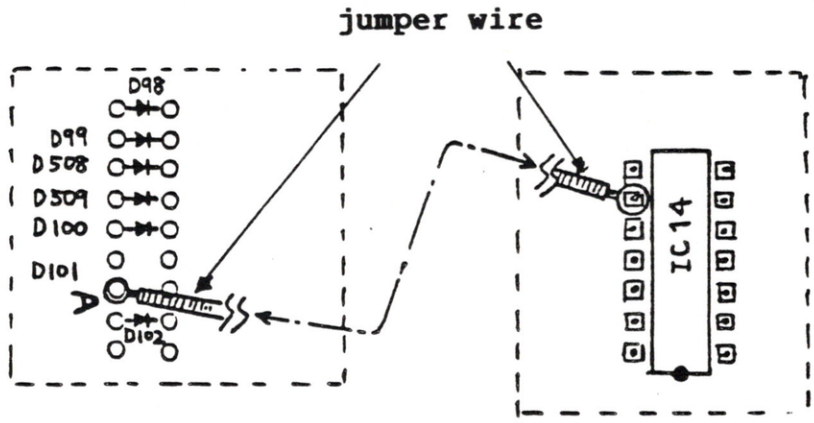


3. Foil side : 18-G



Circuit Changes:

1. ADD: jumper wire between R537 and IC14-6

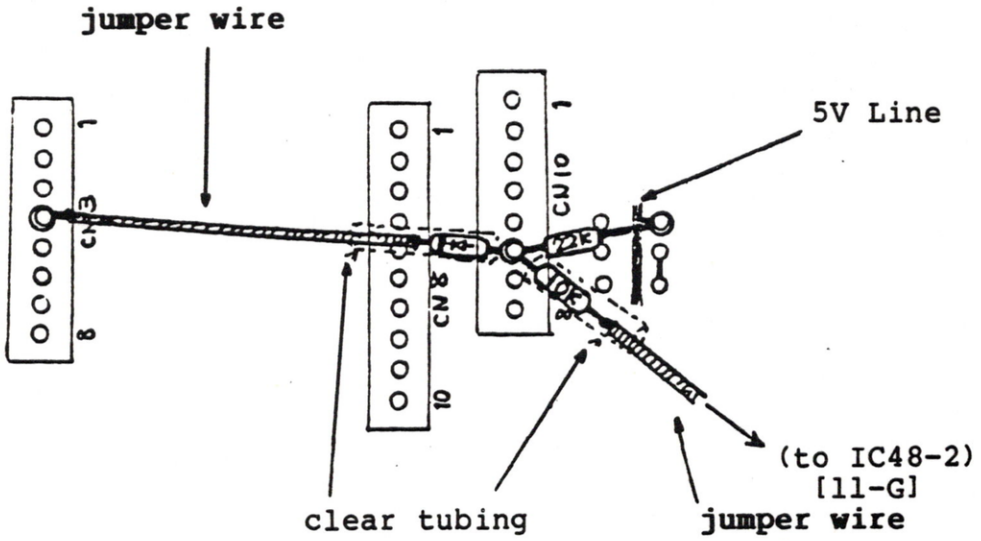


(Foil side address: 19-A)

(Foil side address: 4-F)

2. Components & jumper wires

(Foil side address: 13,18-A)



Factory modified models and serial numbers:

VO-5600.....18451 and higher
VO-5630.....10201 and higher

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VIDEO PRODUCTS TECHNICAL BULLETIN

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Sony Drive, Park Ridge, N.J. 07656

Date: May, 1983 **No.** 277

Model: VO-5600, VO-5630, VP-5000, VP-5030

Subject:

NOISE WHEN CONNECTED TO A REMOTE CONTROL UNIT

When the VTR is connected to a Remote Control Unit and the VTR's PAUSE button is pressed, if Noise (other than Guard Band Noise) appears, perform the following modifications.

SY-75 Board

		(old)		(new)
CHANGE:	C416	0.001µF	⟶	0.01µF 1-101-004-00
ADD:	C517	0.01µF 1-101-004-00		Between Pin 10 of IC76 and GND
	C518	0.01µF 1-101-004-00		Between Pin 14 of IC65 and GND

Factory modified serial numbers:

VO-5600.....21851 and higher
VO-5630.....10401 and higher
VP-5000.....22851 and higher
VP-5030.....10301 and higher

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VIDEO PRODUCTS
TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: May, 1983 No. 278

Model: SLO-323, SLO-323MD, SLO-383, SLP-303

Subject:

STABILIZATION OF THE CAPSTAN FREE SPEED

If (1) STILL Noise moves vertically across the screen during 2X PLAYBACK or (2) the Servo Lock is delayed during 1X PLAYBACK, perform the following modifications.

SLO-323, SLO-323MD and SLP-303

SV-15 Board

	(old)		(new)
CHANGE: C54, C55			
	0.047µF, mylar 1-108-595-00	⟶	0.047µF, polypropylene 1-130-879-00
R130			
	7500 ohms, carbon 1-247-852-00	⟶	7500 ohms, metal 1-214-153-00

SLO-383

SV-33 Board

CHANGE: C65, C66			
	0.047µF, mylar 1-108-595-00	⟶	0.047µF, polypropylene 1-130-879-00
R145			
	7500 ohms, carbon 1-247-852-00	⟶	7500 ohms, metal 1-214-153-00

After completing the modifications, perform the following adjustments.

Sec. 11-3-1. X1 Free Speed Adjustment
Sec. 11-3-2. X2 Free Speed Adjustment

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VIDEO PRODUCTS TECHNICAL BULLETIN

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TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: May, 1983 **No.** 279

Model: VO-5600, VO-5630, VP-5000, VP-5030

Subject:

INCORRECT FWD X5 WHEN CONNECTED TO AN RM-555

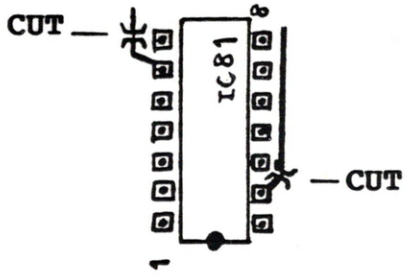
When (1) the VTR is connected to an RM-440, RM-580, RM-500, etc. and an RM-555 and (2) the VTR SELECT Switch on the RM-555 panel is set to SELECT OFF while in SEARCH REV, if the VTR goes into the FWD X5 mode, perform the following modification.

Modification

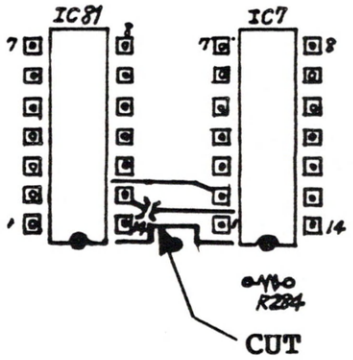
SY-75 Board (address: 17,19-G)

Pattern Cuts:

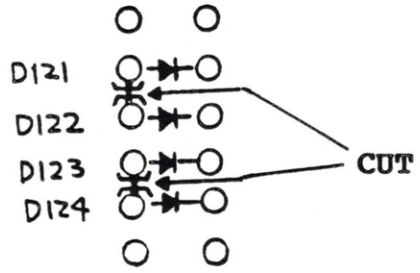
1. Between IC81, pin 6 and IC80, pin 4, and between IC81, pin 13 and IC80, pin 10



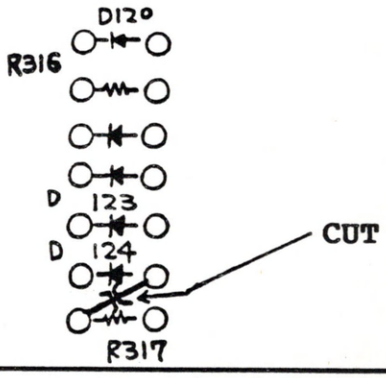
2. Between IC81, pin 13 and IC71, pin 1



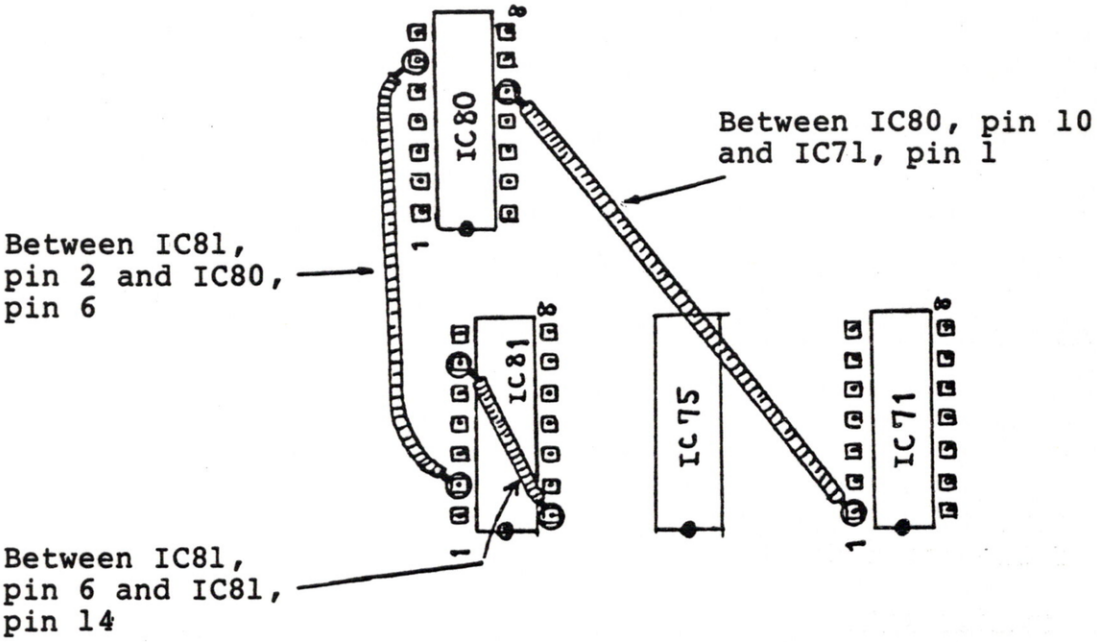
3. Between D121 and D122, and between D123 and D124

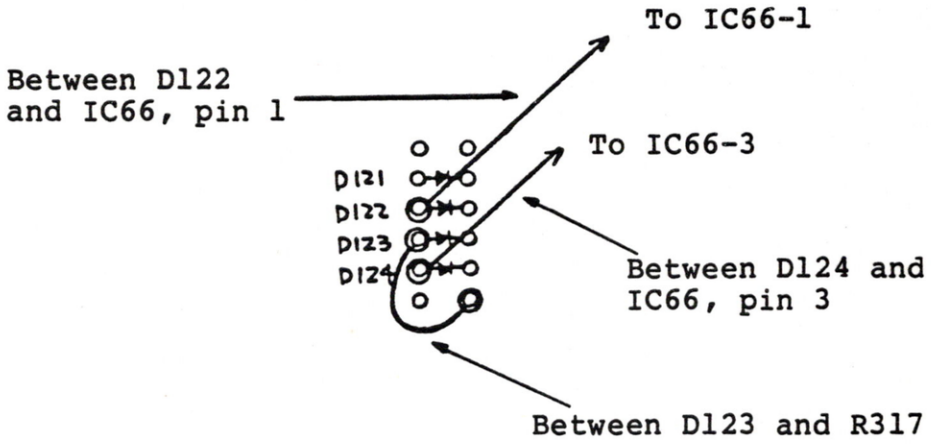


4. Between D124 and R317



Jumper Wires:





Factory modified models and serial numbers:

VO-5600.....18451 and higher
VO-5630.....10201 and higher
VP-5000.....19351 and higher
VP-5030.....10301 and higher

As a result of the modification, when connected to an RM-440 or RM-580 and the DIAL SEARCH is set to 0, if the SEARCH KEY is pressed, while the key is held down the VTR will run at the X5 speed. (REV 0 = REV X5. FWD 0 = FWD X5.) However, when the key is released, the VTR goes into SEARCH 0 (PAUSE mode).

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VIDEO PRODUCTS TECHNICAL BULLETIN

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: June, 1983 **No.** 280

Model: VO-5600, VO-5630, VP-5000, VP-5030

Subject: INCORRECT REMOTE CONTROL COUNTER OPERATION WHEN CONNECTED TO AN RM-440/RM-580

When an RM-440 or RM-580 is connected to the VTR, if the Remote Control Counter 'counts upward' under either of the following conditions, then perform the modification given below.

Conditions

1. The Remote Control STOP KEY and SEARCH KEY are pushed in rapid succession during SEARCH REV.

2. The Remote Control SEARCH Dial is switched rapidly between REV and FWD during SEARCH REV.

Modification

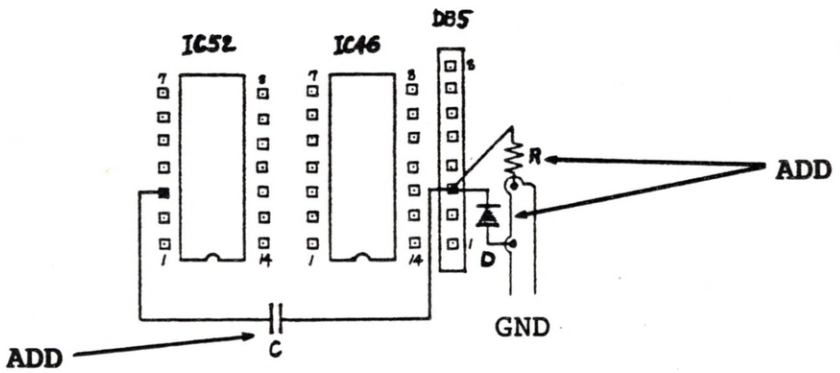
SY-75 Board

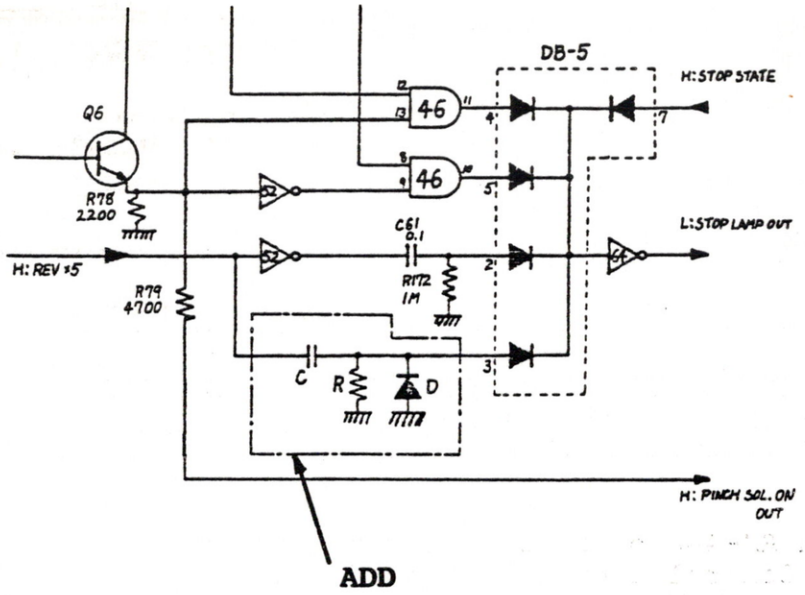
ADD: (to the foil side)

resistor, 1M ohms
1-246-545-00

diode, 1S155
8-719-815-55

capacitor, 0.1µF, mylar
1-108-603-00





Factory modified models and serial numbers:

VO-5600.....18451 and higher
VO-5630.....10201 and higher
VP-5000.....19351 and higher
VP-5030.....10301 and higher

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VIDEO PRODUCTS TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

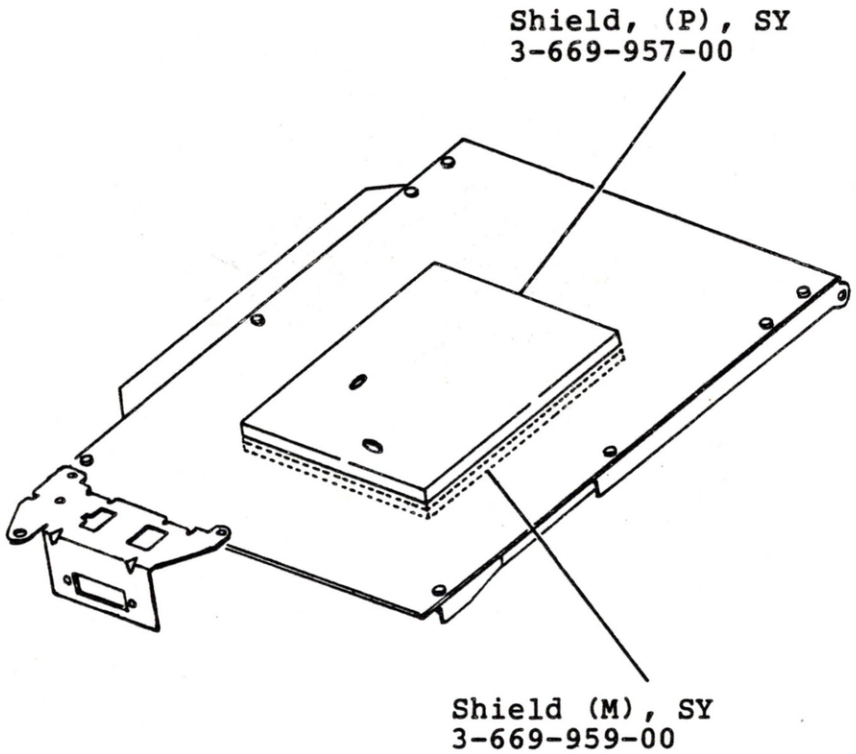
Date: June, 1983 **No.** 281

Model: VO-5850

Subject: SERVICE MANUAL ADDITION

Make the following addition in your Service Manual.

CHASSIS (1), Pages 15-25, 15-26



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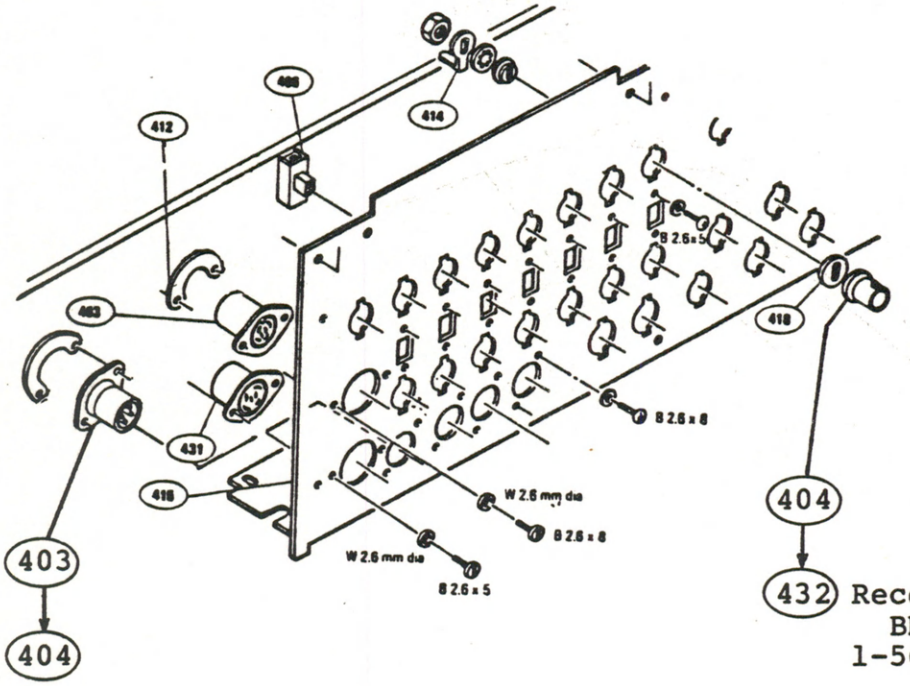
Date: June, 1983 **No.** 282

Model: SEG-2000

Subject: SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual.

CONNECTOR PANEL BLOCK, Pages, 12-9, 12-10



(432) Receptacle, Male BNC
1-561-336-00

PERIPHERAL

Ref: VTRW-83-1063

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VIDEO PRODUCTS TECHNICAL BULLETIN

VTR

SONY COMMUNICATIONS PRODUCTS COMPANY
TECHNICAL PUBLICATIONS DEPARTMENT
Sony Drive, Park Ridge, N.J. 07656

Date: June, 1983 **No.** 283

Model: VO-5600, VO-5630, VP-5000, VP-5030

Subject:
SERVICE MANUAL CORRECTION

Make the following correction in your Service Manual.

DRUM/CAPSTAN, Pages 15-15, 15-16

(original)		(correction)
Motor, DC (BHF-1600A) 8-835-019-01	⟶	8-838-019-01

Ref: VTRW-83-1065

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VTR

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Sony Drive, Park Ridge, N.J. 07656

Date: June, 1983 **No.** 284

Model: VP-5000, VP-5030

Subject:

CHANGE OF THE AUDIO/CTL HEAD

The Audio/CTL Head has been changed.

(old)		(new)
Head, CTL (PP150-5803) 8-829-358-10	⟶	Head, CTL (PP150-5803B) 8-829-358-40

The new part is compatible with all models and serial numbers.

Factory modified models and serial numbers:

VP-5000.....20351 and higher
VP-5030.....10601 and higher

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Technical Bulletin

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Sony Drive; Park Ridge, New Jersey 07656

Date July, 1983 No. 285

Model VO-2860, VP-2260

Subject CHANGE OF THE REV LIMITER PULLEY

The REV Limiter Pulley has been changed.

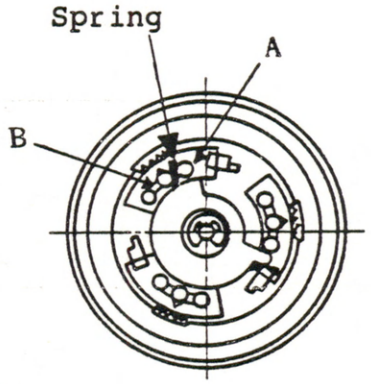
(old)		(new)
Limiter Ass'y, REV A-6740-039-A	⟶	A-6740-039-B

In addition, Sec. 6-9. REV Torque Adjustment (page 6-5) for the new pulley has been changed.

6-9. REV Torque Adjustment

6. If it is not within the specifications, adjust the position of the spring, as indicated below, and then perform the adjustment again.

   * Move the spring clockwise (A) to increase the torque.
   * Move the spring counter-clockwise (B) to decrease the torque.
   * After adjusting the position of the spring, if the unit still does not meet the specifications, then replace the pulley with a new part.



Factory modified models and serial numbers:

VO-2860.....14941 and higher
VP-2260.....10961 and higher

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VTR System

Date **July, 1983** No. **286**

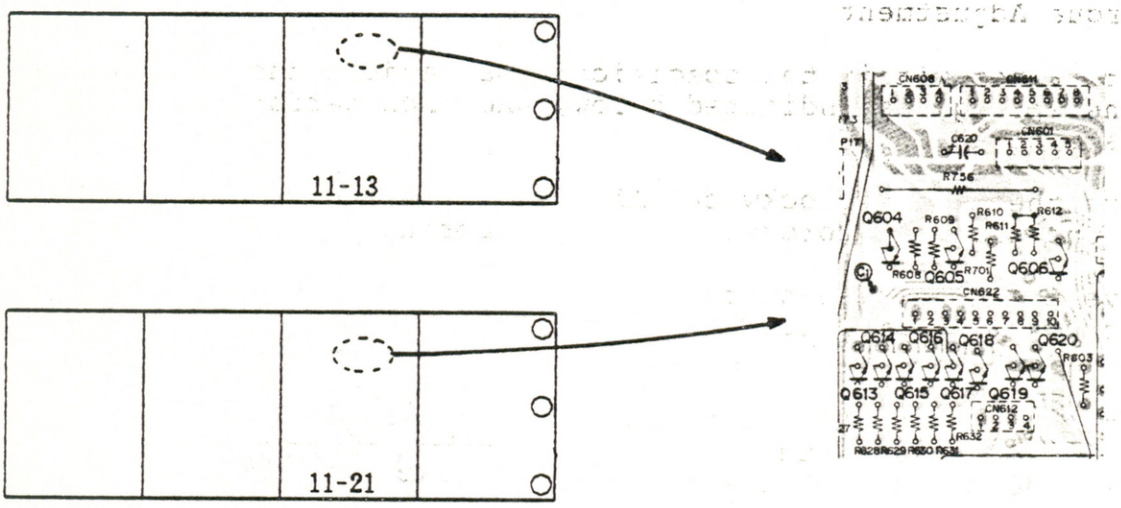
Model **SLO-420**

Subject **SERVICE MANUAL CORRECTION**

Make the following correction in your Service Manual.

Pages 11-13, 11-21

(original)		(correction)
R756	⟶	**R750**



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Date **July, 1983** No. **287**

Model **LDP-1000**

Subject **SERVICE MANUAL CORRECTION**

Make the following correction in your Service Manual.

Page 13-41, PW-63 Board

(original)		(correction)
F3 1.6A 1-532-416-00	⟶	F3 1.6A 1-532-267-XX

Disc System

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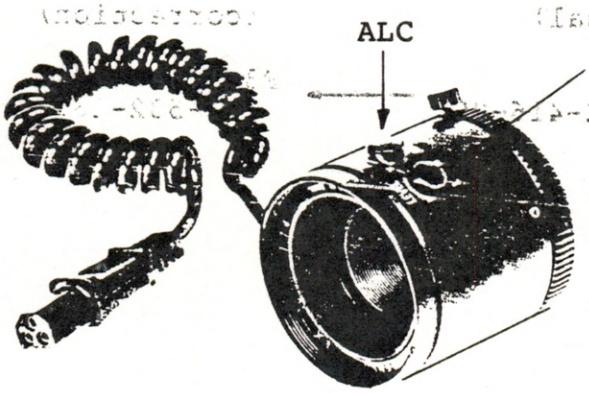
Date **July, 1983** No. **288**

Model **AVC-1450**

Subject **JF1614EA-3 LENS ADJUSTMENT**

When the Canon (JF-1614EA-II) E-E Auto Iris Lens is replaced with a Cosmicar (JF1614EA-3) lens, the alignment procedure contained in the Service Manual must be modified, as follows:

Page 7

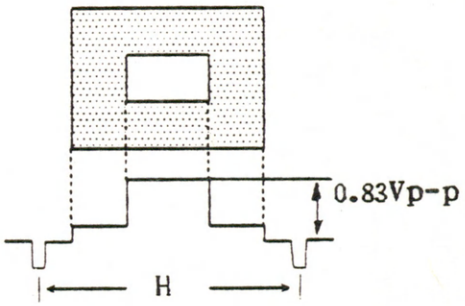


10. Auto Iris Lens Adjustment

1. ALC Adjustment

Shoot the Window Chart, and adjust the VIDEO OUPUT level with the ALC to 0.83 Vpp ± 10%.

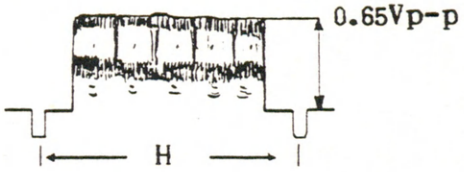
15% Window Chart



2. LEVEL Adjustment

Shoot the Resolution Chart, and adjust the VIDEO OUTPUT level with the LEVEL to 0.65 Vpp ± 0.05 Vpp.

Resolution Chart Waveform



Repeat the above two steps until the unit is within the specifications.

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Date **July, 1983** No. **289**

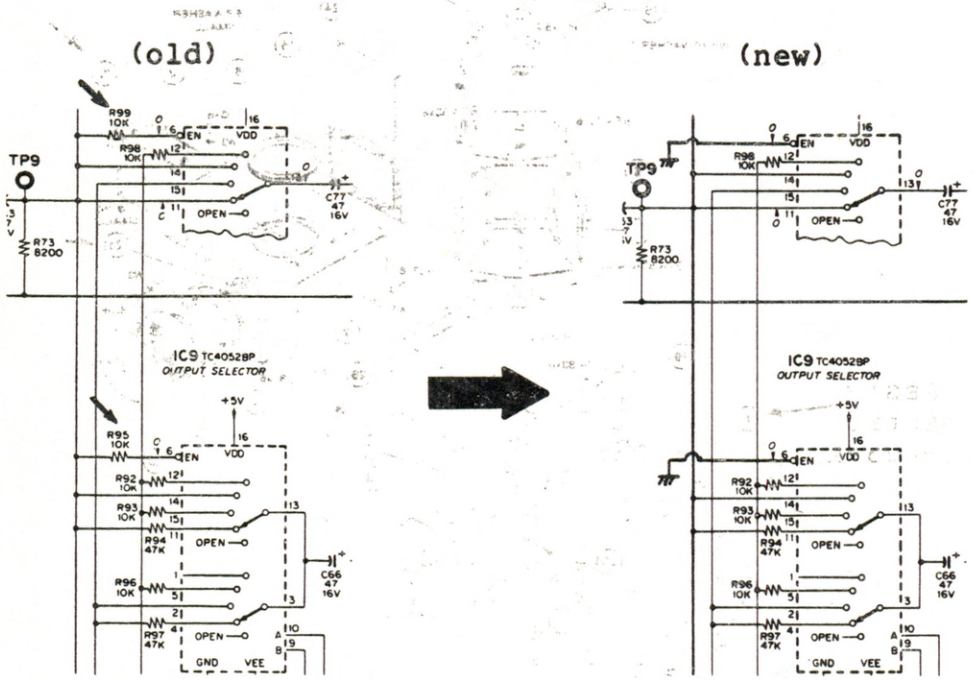
Model **LDP-1000**

Subject **AUDIO DISTORTION**

When playing back high level audio, if there is distortion, perform the following modification.

AU-23 Board

1. Remove R95, R99 10K ohms
2. Attach Pin 6 of IC9, IC10 to GND



Factory modified models and serial numbers:

LDP-1000.....24181 and higher
LDP-1000FD.....14021 and higher

Disc System

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Video Products Technical Bulletin

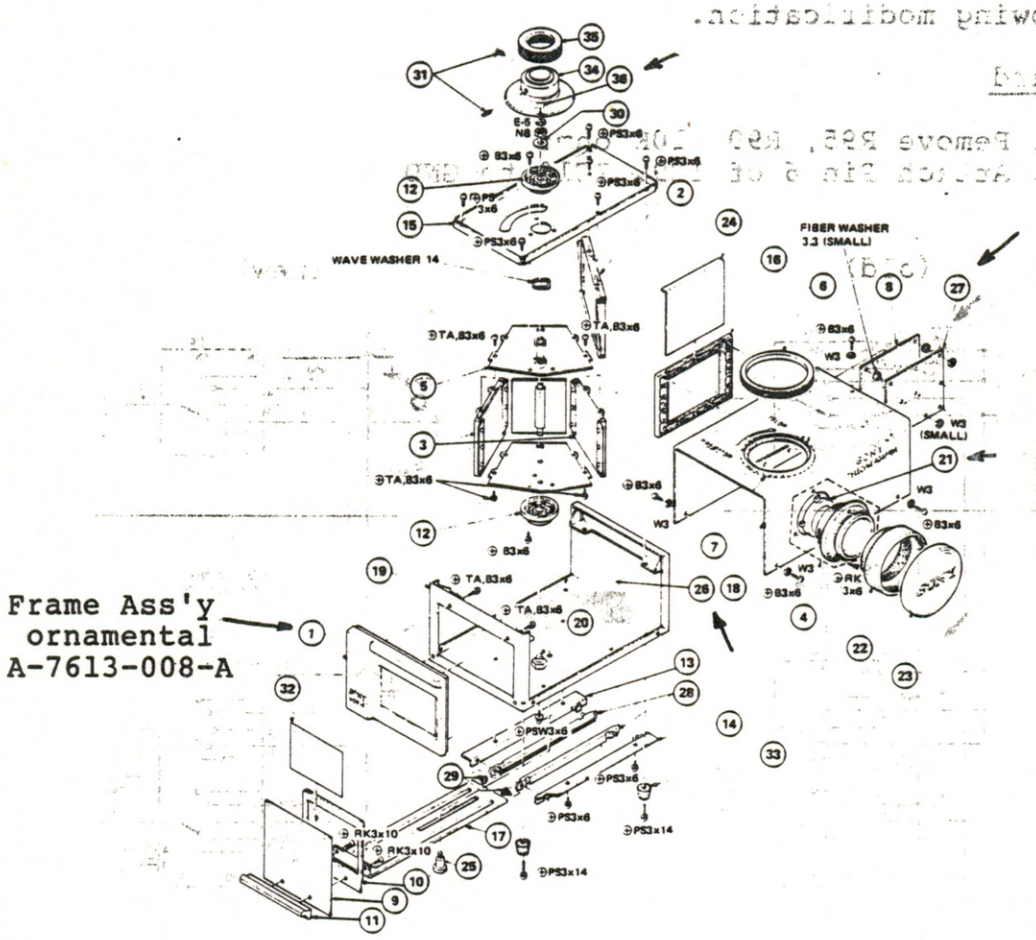
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Sony Drive; Park Ridge, New Jersey 07656

Date **August, 1983** No. **290**

Model **VCR-3, VCR-4**

Subject **FRAME ASSEMBLY STANDARDIZATION**

The Frame Assembly for the VCR-3 and VCR-4 has been standardized.



Available Frame Ass'y will be marked with the VCR-4 model number. Therefore, when servicing a unit, check the following parts, which are contained ONLY in the VCR-4, in order to determine whether or not the unit is a VCR-3 or VCR-4.

Ref. No.	Part No.	Description
27	2-272-707-00	Lens
21	2-256-032-00	Retainer, Lens
36	3-880-557-00	Spring
26	2-272-706-00	Label, Model Number

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VTR System

Date **August, 1983** No. **291**

Model **VP-1000, VP-1200, VO-1600, VO-1800**

Subject **SERVICE MANUAL CORRECTION**

Make the following correction in your Service Manual.

(original)		(correction)
Grip Type Stop Ring (GTW-4) 7-624-190-31	⟶	7-624-193-01

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VTR System

Date **September, 1983** No. **292**

Model **VO-2800**

Subject **PART NUMBER CHANGE**

The part number for the Control Panel Ass'y has changed.

(old)		(new)
Panel Ass'y, Control X-3468-026-0	⟶	Panel Ass'y (R), Control X-3658-701-0

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Video Products Technical Bulletin

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Date **September, 1983** No. **293**

Model **DXC-6000**

Subject **CHANGE OF THE X1 CRYSTAL ON THE SG-40 BOARD**

The X1 Crystal on the SG-40 Board has been changed.

(old)		(new)
X1 Crystal 1-527-350-00	⟶	1-526-880-00

The new part is NOT compatible with earlier serial numbers.

NOTE: Either an old or a new crystal can be used on boards with a "-14" suffix.

Factory modified serial numbers:

50741 and higher

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Date April, 1984 No. 294R

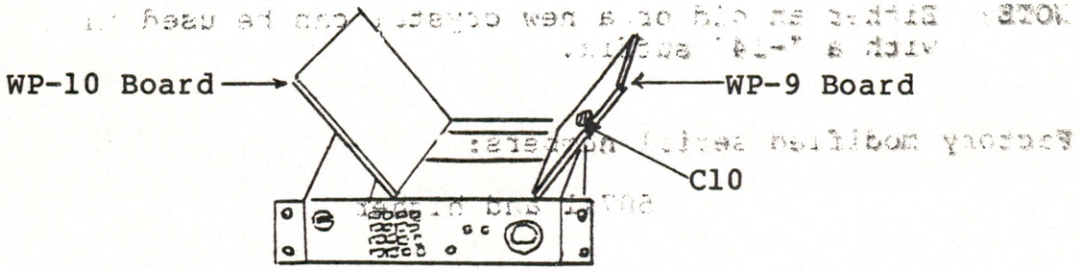
Model WEX-2000

Subject JITTERING WHILE USING POSITION CONTROL JOYSTICK

When using the POSITION CONTROL JOYSTICK for a wipe pattern, if heavy up and down jittering occurs during the wipe, perform the following modification.

WP-9 Board

1. Remove the top cover from the unit.
2. Fold out the WP-10 Board.



3. Remove the WP-9 Board Frame Stop Screw.
4. Fold out the WP-9 Board.
5. Replace C10.

	(old)		(new)
C10	0.01µF	⟶	0.022µF, ceramic 1-161-017-00

6. Reinsert the WP-9 and WP-10 Boards, and reattach the cover.

NOTE: Readjustment is not necessary.

Factory modified serial numbers:

10051 and higher

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Date October, 1983 No. 295

Model CRK-2000

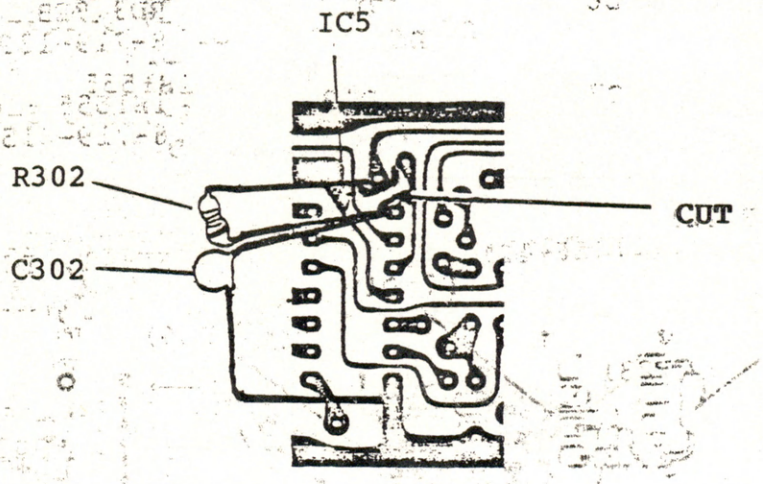
Subject CHANGE OF THE EXT KEYING CIRCUIT

The EXT KEYING circuit has been changed.

EF-12 Board

ADD: R302 10K ohms
1-247-855-00

C302 100pF
1-102-106-00



Factory modified serial numbers:

10021 and higher

Ref. VS-83-4021, VTRW-83-1096

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Date October, 1983 No. 296

Model CRK-2000

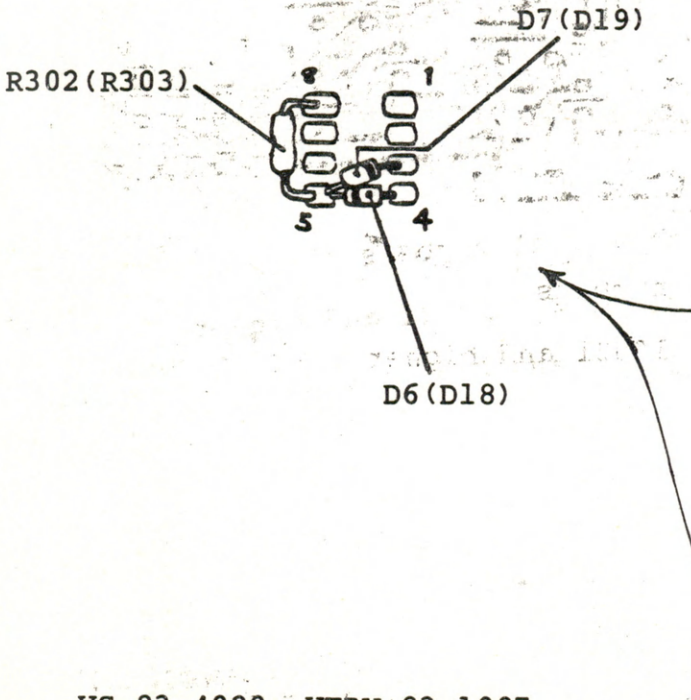
Subject ADDITION OF A POWER START CIRCUIT

A Power Start Circuit has been added to the +9V Regulator Circuit.

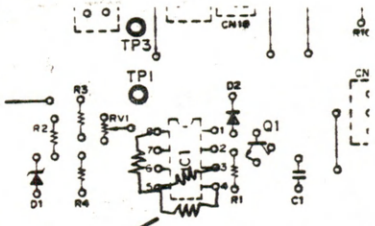
EF-11 & EF-12 Boards

	EF-11, IC1	EF-12, IC10	
ADD:	R302	R303	8.2K ohms 1-247-853-00
	D6	D18	RD3.9EB 8-719-139-07
	D7	D19	1S1555 8-719-815-55

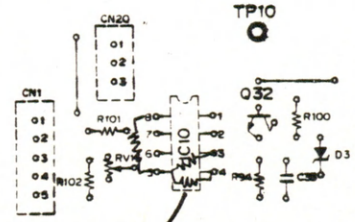
EF-11(EF-12)



EF-11, IC1



EF-12, IC10



Camera System

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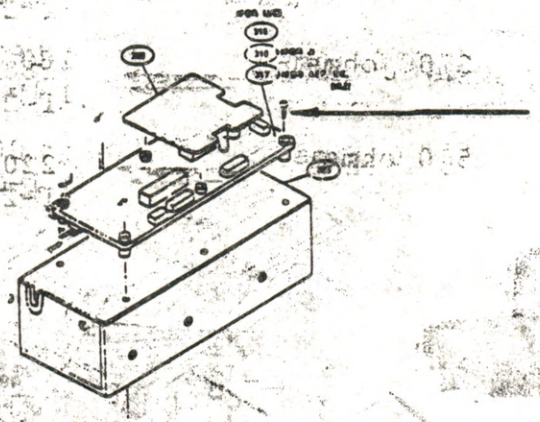
Date October, 1983 No. 297

Model SEG-2000A

Subject SERVICE MANUAL ADDITION

Make the following addition to your service manual.

Service Manual, Pages 12-7 and 34



NOTE: The screw can be no longer than 30 mm.

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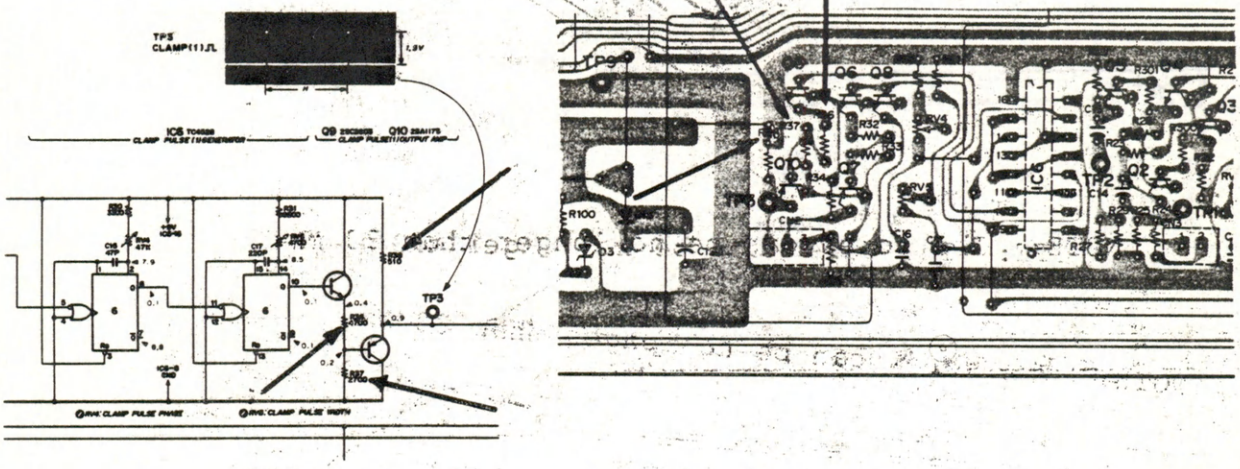
Date **November, 1983** No. **298**

Model **CRK-2000**

Subject **CIRCUIT CHANGE ON THE EF-12 BOARD**

The circuit on the EF-12 Board has been changed.

	(old)		(new)
R36	4700 ohms	→	2700 ohms, 1/6 W carbon 1-247-841-00
R37	2700 ohms	→	1800 ohms, 1/6 W carbon 1-247-837-00
R38	510 ohms	→	220 ohms, 1/4 W carbon 1-246-457-00



Factory modified serial numbers:

10161 and higher

Ref. **VS-83-4022**

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Date December, 1983 No. 299

Model CCU-1800

Subject CHANGE OF THE PR-26 BOARD

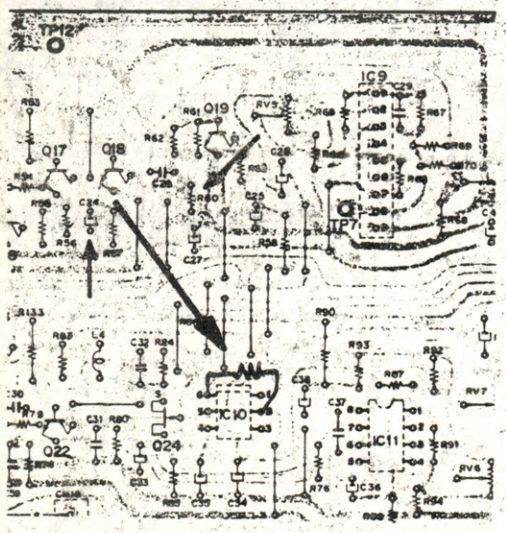
The PR-26 Board has been changed.

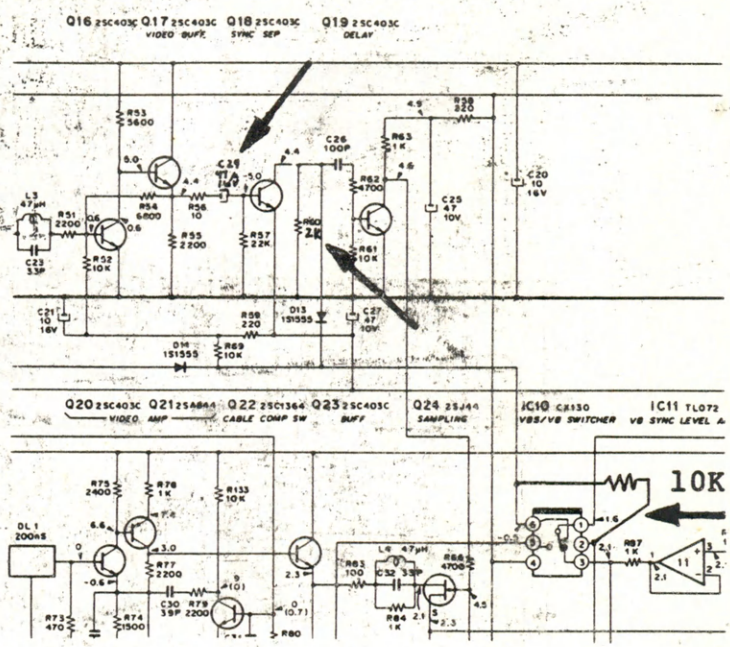
CHANGE: C24 : 0.33µ, 35V, tantalum → 47µ, 16V
1-123-332-00

R60 : 1k ohms, carbon → 2k ohms, carbon
1-246-480-00

ADD: 10k ohms carbon resistor
1-246-497-00

(between IC10 pin 2 and pin 6)





Factory modified serial numbers:

12651 and higher

Ref. VS-83-4024